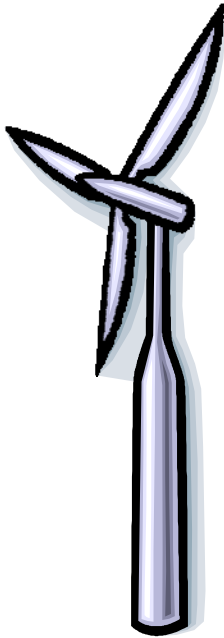


*Mathematics Review: Idaho
Content Standards with INL
Renewable Energy Partnership*



6th Grade

Daily Review of Idaho Content Standards



Key Elements:

It's free

Renewable Energy & Wind Energy

Focus

Aligned to Idaho's Content Standards

Great ISAT Review!

Easy to implement as pre-lesson refresher

Fun! Especially if you use a classroom weather station, or connect to Skyline's Skystream Windmill

More fun science and math More activities on INL's Wind Power for Educators web site

Able to modify for all levels of student ability

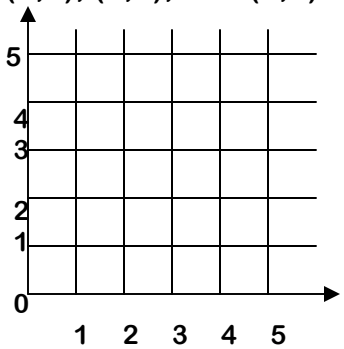
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.1.1

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement
Order from least to greatest: 15/25 20/25 10/15 _____ _____ _____		What would the right measurement for measuring water for cookies? Quarts Cups Liters
Algebra & Functions What is $5(20 \times 11)$? _____		Geometry Graph the following points on the graph- (5,1), (4,3), and (2,5). 
Data Analysis, Probability and Statistics Most people think that Chicago is the windiest city in the U.S., but it is really Boston. The numbers below indicate the miles per hour of the winds for Boston for a 2-week period. Use the information to make a stem and leaf plot. Then find the range, median, and mode. Write answers on the back. 22 35 27 15 38 32 22 35 25 29 22 18 24 36		



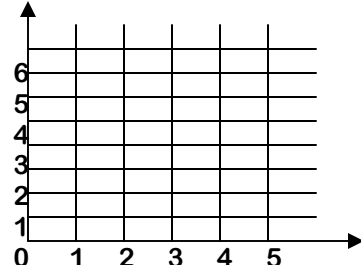
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.1.2

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement
$(24/12) \div 14 =$ _____ $320 \times 11 =$ _____		JoAnne is measuring how long it takes her to drive to her parents' house 5 miles away. Should she use minutes or hours? _____
Algebra & Functions Translate the following statement into an equation: Mia has 18 apples and Jonny has x amount of apples. Together they have 27 apples. _____		Geometry Jill is drawing a rectangle. Plot points on the graph that makes this shape and label them with their coordinates. 
Data Analysis, Probability and Statistics Thirty-seven states use wind as a source of energy. What fraction of the states does not use wind energy? _____ Twelve states in the midsection of the country, Texas to North Dakota, contribute 90% of the wind electric potential. What fraction of the states is this? What percentage? _____		



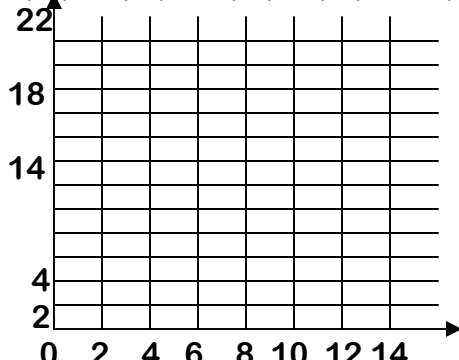
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.1.3

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
Order from greatest to least: 3/12 4.15 0.17 6/8 3.666 _____	Jack went to the zoo with his mother and looked at the animals. The elephant weighed 2 _____, the zebra weighed 200 _____, and the little monkey weighed 30 _____. Kilograms tons grams
Algebra & Functions	Geometry
Translate the following statement into an equation: Clint started with 27 marbles. During the day, his friends have added x amount and the total is now 86 marbles. _____	Graph and label the coordinates: (3,4), (8, 6), (1,20), (5,7), (14,16). 
Data Analysis, Probability and Statistics	
Wind power plants in California produced over 3.1 billion kWh of electricity during 1995, about 1.2% of the electricity used by California. What % of California's electricity does not come from wind? _____ Would you say that California depends on wind for most electricity? Explain. (Answer on back).	

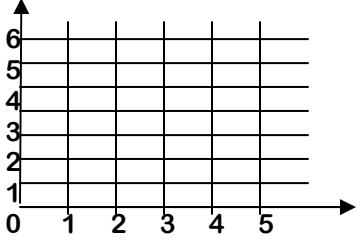
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.1.4

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
$290 \times (3/4) =$ _____ $10,342 \div 15 =$ _____	Suzie is looking at the stars with her mother and is wondering how far away they are. Would she use meters or miles to measure the distance? _____
Algebra & Functions	Geometry
Translate the statement into an equation. Josh was given \$32. He put it into the bank and every month he adds \$7. After x months, he has \$88. _____	Roxy is drawing two triangles. Plot points on the graph that makes this shape and label them with their coordinates. 
Data Analysis, Probability and Statistics	
Damon loves to fly his kite on the weekends. If March 1 st is on a Saturday, how many days will he get to fly his kite in March? _____ If one weekend is a washout, what fraction of the weekend days is this? _____ What fraction shows the days out of the month where he can fly his kite? _____	

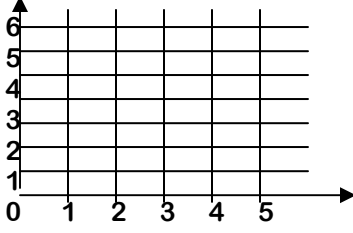
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.2.1

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Order from greatest to least: 1,325,343,222; 1,736,829,847; 1,325,343,221; 1,746,829,748 _____		John, Kyle, and Lisa are measuring themselves. John is 74 _____, Kyle is 5.8 _____, and Lisa is 1.8 _____.	
_____		Feet	Meters
_____		Inches	
Algebra & Functions		Geometry	
Translate the statement into an equation. Joe started with 45 bananas. Tia gave him x bananas, and took y bananas. He now has 32 bananas. _____		Plot the following points: (5,4), (2,6), (3,1), (1,1), and (4, 3).	
_____			
Data Analysis, Probability and Statistics			
On one windy day in March, the combined winds of Philadelphia and Pittsburgh totaled 68 mph. The winds in Pittsburgh were 10 mph more than in Philadelphia. What were the winds in each city? _____			

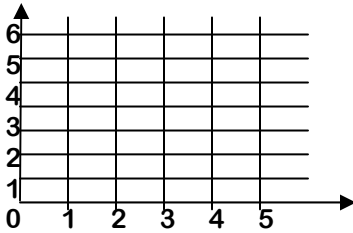
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.2.2

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Order the numbers from greatest to least: 0.013; 1.056; 1.467; 1.065; 0.046; 2.342. _____		Erin, Chris, and Liz are discussing their weekend. Erin went to the movies for 3 _____, Chris went to town for 45 _____, and Liz went to Colorado for 3 _____.	
_____		Days	Hours
_____		Minutes	
Algebra & Functions		Geometry	
Translate the statement into an equation. Anna has 17 apples. Every day, she receives two apples. After x days, she now has 59 apples. _____		Jim is drawing a pentagram. Plot points on the graph that makes the shape and label the coordinates.	
_____			
Data Analysis, Probability and Statistics			
Who is the kite flier, sailor, windsurfer, and balloonist? Kate, Wayne, Ben, and Sarah are all 20 years old. Here are some clues to help you solve this problem: No one is involved in the sport that has the same first letter as his or her name. Kate isn't friends with the balloonist but she is best friends with the sailor. Wayne is a male chauvinist and he can't believe that a girl could be a balloonist. Ben is afraid of water. _____			

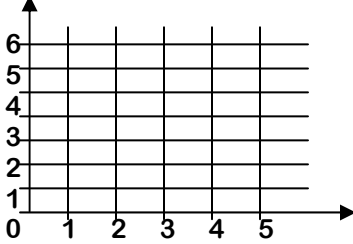
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.2.3

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Order from greatest to least: $2\frac{3}{4}$; $3\frac{2}{3}$; $5\frac{4}{5}$; $2\frac{0}{2}$; $\frac{3}{4}$; and $\frac{7}{5}$. _____ _____ _____		Arrange in order from shortest to longest: Inches, feet, yards, miles, millimeters, centimeters, and meters. _____ _____ _____	
Algebra & Functions		Geometry	
Translate the statement into an equation. Roxy has 8 oranges. Her mom has to cut them into x amount of slices. After they are cut, Roxy has 64 slices. _____		Plot points on the graph that when connected look like the first letter in your first name and label the coordinates.	
Data Analysis, Probability and Statistics			
A device called an anemometer is often used on top of a wind turbine to measure the wind speed of an area. Here are some readings from Wolverine Creek, Idaho: 12, 15, 27, 10, 32, 14, 16, 12, 11, 15, and 60. Find the Mean, Median, and Mode. Show work on back. _____ _____ _____			

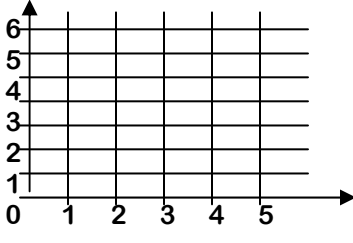
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.2.4

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Order from greatest to least: 4.029 ; 4.783 ; 2.845 ; 0.240 ; 1.242 ; and 0.241 _____ _____ _____		Which is greatest- 10 tons or 10 kilograms? What would weigh that much? What would you use to conduct that measurement? _____	
Algebra & Functions		Geometry	
Translate the situation into an equation. Bill has three pineapple halves. Joe takes x halves, but Zena gives him y whole pineapples. Bill has 5 and one half pineapples left. _____		Tony is drawing a diamond. Plot points on the graph that makes the shape and label the coordinates.	
Data Analysis, Probability and Statistics			
Wind turbine towers range in size from 130 meters tall to 20 meters tall and every size in between. Here are some different heights: 130, 20, 35, 80, 77, 40, and 110. What is the mean, median and mode for these heights? _____			

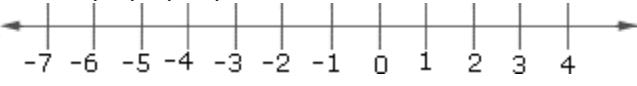

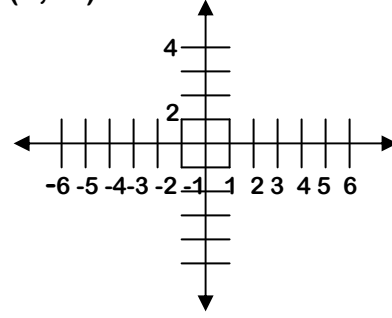
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.3.1

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Locate the following numbers on the number line: 2; 1; 0; -5; and -2.		Which is longer- a yard or a meter? What would you use a yard stick or a meter stick to measure?	
			
Algebra & Functions			
Label the symbol with its correct name:		Plot and label the following points on the graph: (3,2), (-2, -3), (-4, 2), and (1, -1).	
$<$ _____ $>$ _____ $=$ _____ Less than Greater than Equal to			
Data Analysis, Probability and Statistics			
The top ten wind energy states in the U.S. are decided by annual energy potential in billions of kW-hrs. The top state is North Dakota followed by Texas, Kansas, South Dakota, and Montana. Their annual energy potential is: 1,210; 1,190; 1,070; 1,030; and 1,020. Find the mean, median, and mode.			

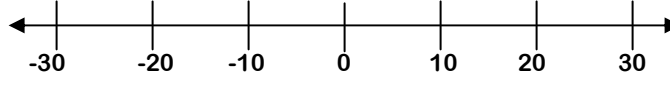

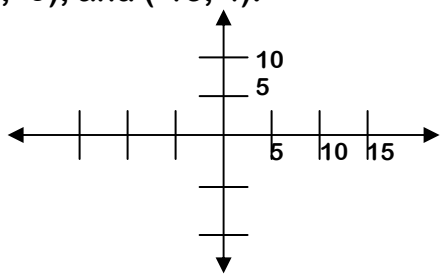
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.3.2

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Locate the following numbers on the number line: -15, 12, 20, -25, -3, 8, and 18.		Wayne is measuring how far it is between his house and his best friend, Ryan's house. What unit should he use? _____	
		Inches Meters Feet	
Algebra & Functions		Geometry	
Write the statement as a simple algebraic equation. Joe has x apples, but he has more than John, who has 34 apples.		Plot and label the following points on the graph: (8,10), (15,-12), (-3, -9), and (-13, 4).	
			
Data Analysis, Probability and Statistics			
Go to http://69.20.174.50/Welcome.html and click on "Skyline SkyStream Wind Turbine." This will lead you to a site that has wind turbine data collected over time. What is the average wind speed for today? How much electricity is being generated? Look at the picture of the wind turbine- What part of the design do you think helps it spin? Answer on the back.			

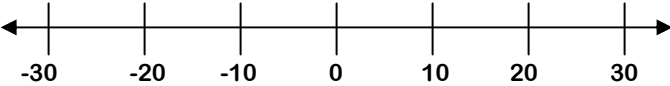
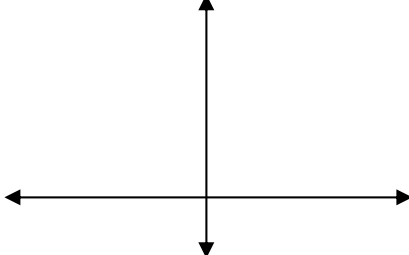
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.3.3

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Locate the following numbers on the number line: 7, 10, 29, 17, -28, -21, and -13.		Hillary is working for her dad and has to measure out how much time she has spent where. What unit should she use? _____	
		Seconds Minutes Hours Both Hours and Minutes	
Algebra & Functions		Geometry	
If Joel is taller than Billy and Emma is shorter than Joel, fill in the expression with the correct names- _____ < _____ < _____		Fill in the coordinate plane with an appropriate scale and plot and label the following points: (5,10), (2,4), (6,7), (-3,2), and (-6,3).	
Data Analysis, Probability and Statistics			
Some Solar panels work by absorbing the light particles and creating an electric current that can be converted and used for electricity. Here are some daily amounts of electricity in watts over a 6 day period: 2.4; 3.2; 6.0; 1.2; 8.0; and 2.0 What is the mean, median, and mode? _____			

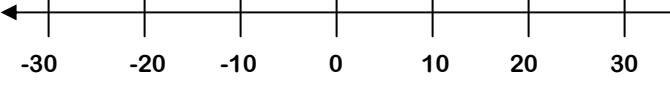
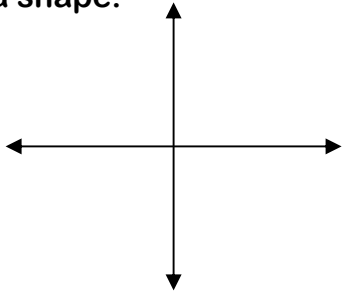
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.3.4

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Locate the following numbers on the number line: -17, 32, 21, -1, 0, 13, -8, and 5.		Dr. Drake is measuring out medicine for his patients. What unit should he use to measure the medicine? _____	
		Gallons Liters Milliliters	
Algebra & Functions		Geometry	
Find someone in your class who is taller than you and someone who is shorter than you. Then, appropriately fill out the equation _____ < _____ < _____ with their names.		Fill in the coordinate plane with an appropriate scale and plot and label the points in a way that they form a shape.	
Data Analysis, Probability and Statistics			
The rotor blades on a wind turbine can range in length from 77 meters in diameter to 3 meters and the bigger they are, the more electricity they can produce. Here are some wind turbine diameters: 77, 45, 37, 12, and 3. Find the mean, median, and mode of these numbers. _____			

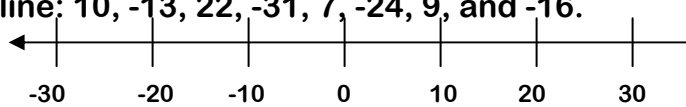
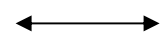
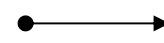
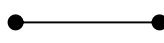
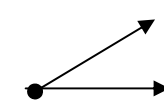
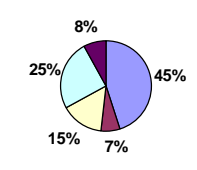
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.4.1

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement										
<p>Locate the following numbers on the number line: 10, -13, 22, -31, 7, -24, 9, and -16.</p> 	<p>Joe is working at the grocery store- if Joe worked $7\frac{3}{4}$ hours and started at 8:00 A.M., when did he go home?</p> <p>_____</p>										
Algebra & Functions	Geometry										
<p>Chris, Jill, and Sara are organizing themselves according to their height, but it is written like this: Jill < Sara > Chris Who is tallest? _____</p>	<p>Which of the following is a ray? Circle the correct answer.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  Figure 1 </div> <div style="text-align: center;">  Figure 2 </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  Figure 3 </div> <div style="text-align: center;">  Figure 4 </div> </div>										
Data Analysis, Probability and Statistics											
<p>Make two or more interpretations about the data and the chart:</p> <p>_____</p> <p>_____</p> <p>_____</p>	<div style="text-align: center;"> <p>Types of Wind Turbines & % Sold in U.S.</p>  <table border="1" style="margin: 0 auto; font-size: small;"> <thead> <tr> <th>Type</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>GE Wind Energy Systems</td> <td>45%</td> </tr> <tr> <td>Northern Power</td> <td>15%</td> </tr> <tr> <td>Nordex</td> <td>7%</td> </tr> <tr> <td>AAER</td> <td>8%</td> </tr> </tbody> </table> </div>	Type	%	GE Wind Energy Systems	45%	Northern Power	15%	Nordex	7%	AAER	8%
Type	%										
GE Wind Energy Systems	45%										
Northern Power	15%										
Nordex	7%										
AAER	8%										

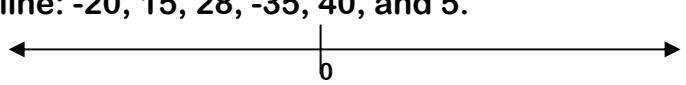
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.4.2

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement														
<p>Label the number line appropriately and locate the following numbers on the number line: -20, 15, 28, -35, 40, and 5.</p> 	<p>Lisa has been volunteering her time in town and has volunteered $4\frac{1}{2}$ hours. She needs 8 hours. How many more hours does she need to volunteer? _____</p>														
Algebra & Functions	Geometry														
<p>Organize the students' heights from least to greatest if: John < Seth > Alex Maddie < Alex & John John < Alex</p> <p>_____</p>	<p>Draw an angle and state how many rays a single angle is composed of:</p> <p>_____</p>														
Data Analysis, Probability and Statistics															
<p>How many students received a score of greater than 85 on their test?</p> <p>_____</p>	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Score</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>Below 75</td> <td>4</td> </tr> <tr> <td>75 – 80</td> <td>14</td> </tr> <tr> <td>80 – 85</td> <td>2</td> </tr> <tr> <td>85 – 90</td> <td>8</td> </tr> <tr> <td>90 – 95</td> <td>5</td> </tr> <tr> <td>95 – 100</td> <td>1</td> </tr> </tbody> </table>	Score	Frequency	Below 75	4	75 – 80	14	80 – 85	2	85 – 90	8	90 – 95	5	95 – 100	1
Score	Frequency														
Below 75	4														
75 – 80	14														
80 – 85	2														
85 – 90	8														
90 – 95	5														
95 – 100	1														

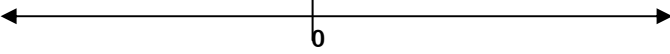
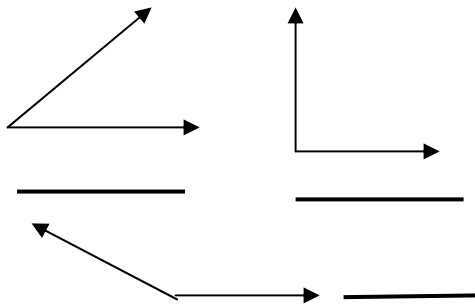
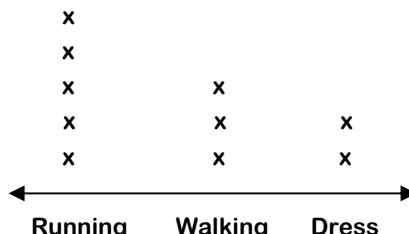
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.4.3

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
<p>Label the number line appropriately and locate the following numbers on the number line: 2, 14, -6, -12, 18, and -10.</p> 	<p>Mia needs help calculating her time spend on homework. Every day she works on it $2 \frac{1}{4}$ hours. If she does this for four days in a row, how long has she worked? _____</p>
Algebra & Functions	Geometry
<p>Fill the equation in with things you can find around your classroom. An example would be an apple.</p> <p>_____ < _____ < _____ < _____ < _____</p>	<p>Label the type of angle with its correct name:</p>  <p style="text-align: center;">Acute Right Obtuse</p>
Data Analysis, Probability and Statistics	
<p>This line plot shows the numbers & types of shoes Roxy has. What can you assume about her living habits?</p> 	

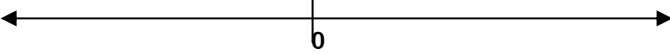

Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.4.4

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement																								
<p>Label the number line appropriately and locate the following numbers on the number line: 50, -43, 34, -21, 17, -5, and 1.</p> 	<p>Erin has to do chores for a minimum of $3 \frac{1}{2}$ hours and has been working for $1 \frac{3}{4}$ hours. How much longer does she have to work? _____</p>																								
Algebra & Functions	Geometry																								
<p>Fill in the equation with things you would find in a zoo. An example would be an elephant.</p> <p>_____ < _____ < _____ > _____ = _____ < _____</p>	<p>Which of the following can be obtained by joining line segments? Circle the correct answer.</p> <p>A. a circle</p> <p>B. a polygon</p> <p>C. a line</p> <p>D. a sphere</p> 																								
Data Analysis, Probability and Statistics																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Wind Power</th> <th style="width: 20%;">Resource Potential</th> <th style="width: 20%;">Wind Speed at 50 m</th> </tr> </thead> <tbody> <tr><td>Class 1</td><td>Poor</td><td>0-12.5</td></tr> <tr><td>Class 2</td><td>Marginal</td><td>12.5-14.3</td></tr> <tr><td>Class 3</td><td>Fair</td><td>14.3-15.7</td></tr> <tr><td>Class 4</td><td>Good</td><td>15.7-16.8</td></tr> <tr><td>Class 5</td><td>Excellent</td><td>16.8-17.9</td></tr> <tr><td>Class 6</td><td>Outstanding</td><td>17.9-19.7</td></tr> <tr><td>Class 7</td><td>Superb</td><td>> 19.7</td></tr> </tbody> </table>	Wind Power	Resource Potential	Wind Speed at 50 m	Class 1	Poor	0-12.5	Class 2	Marginal	12.5-14.3	Class 3	Fair	14.3-15.7	Class 4	Good	15.7-16.8	Class 5	Excellent	16.8-17.9	Class 6	Outstanding	17.9-19.7	Class 7	Superb	> 19.7	<p>This graph shows the wind power scale that is used for wind turbines. If the scale goes to 20 mph, what percent of wind falls under 'Fair' or less?</p>
Wind Power	Resource Potential	Wind Speed at 50 m																							
Class 1	Poor	0-12.5																							
Class 2	Marginal	12.5-14.3																							
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Class 5	Excellent	16.8-17.9																							
Class 6	Outstanding	17.9-19.7																							
Class 7	Superb	> 19.7																							

Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.5.1

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement
Convert the following decimals into fractions: 0.25 = _____ 0.125 = _____		Julie is helping her teacher and would like to record how many hours she has worked. She works 3 & 1/2 hours for 5 days. How long is that? _____
Algebra & Functions		Geometry
Which of the following does NOT illustrate the commutative property? A. $ab - 1 = ab$ B. $a + b = b + a$ C. $ab = ba$		Label the following things on the picture: a ray, an angle, a line, and a point. Label all with the correct symbol.
Go to http://skystream.d261.k12.id.us/Welcome.html and click on '10 Minute Interval Chart'. What does this chart show? Was there a low or high point? At what time? What was the power out put at that one point? Is there anything else you find interesting? Please answer on back of paper.		

Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.5.2

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement
Convert the following fractions into decimals: $2/25 =$ _____ $1/20 =$ _____		Dave is required to work at least 7 hours a day, four days a week and has already put in 18 & 3/4 hours. How much more must he work this week? _____
Algebra & Functions		Geometry
Using the associative property, which of the following is the same as ' $x + (y + z)$ '? Circle the correct answer. A. $(x + y) + z$ B. $(x + y) \times z$ C. $(x \times y) + z$ D. $(x \times y) \times z$		Answer the question and draw the figure. How many angles are formed by three rays with a common vertex? Circle the correct answer. A. 3 B. 2 C. 1 D. 4
Study the graph to the right. What does it show? When is the optimum power output? At which points does the power start to rise & drop? Why do you think this is? Answer on back of paper.		

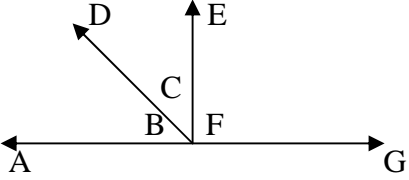
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.5.3

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
Convert the following decimals to fractions: 0.833 = _____ 0.875 = _____	Jenna is beginning her morning jog 4:05 A.M. If she jogs for $\frac{3}{4}$ of an hour, at what time did she return? _____
Algebra & Functions	Geometry
True or False: An Identity is an equation which is true for every value of the variable is called an identity equation. <p style="text-align: center;">True False</p> Circle the correct one:	Which of the following angles are acute, right, obtuse, and straight? List underneath the figure.
Data Analysis, Probability and Statistics	
Go to http://69.20.174.50/Skyline_WindTurbine.html and click on 'View 30 Day Chart of Wind Turbine Energy.' What does this chart show? What can you conclude about wind from looking at this chart? Explain. Are there any major spikes? On what day did these occur? Please state the actual date- not day 3, etc. Please write your answer on the back of the paper.	

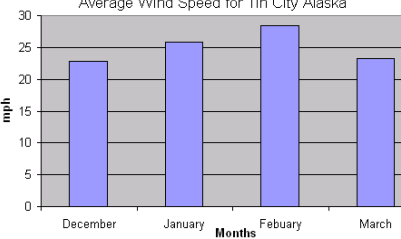
Name: _____

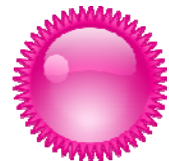
Date: _____

Temperature: _____

Daily Math Review, Grade 6.5.4

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
Convert the following fractions to decimals: $\frac{11}{12}$ = _____ $\frac{1}{25}$ = _____	Jake goes for a $1 \frac{1}{4}$ hour bike ride every day. On Monday, he begins his bike ride at 3:58 P.M. What time will he finish riding his bike? _____
Algebra & Functions	Geometry
Apply the distributive property to the following problems: $5(30 + 15)$ = _____ $7(14 \times 4)$ = _____	Draw two lines that are perpendicular to one another, tell how many angles that forms, label the angles with the correct symbols, and draw two lines that are parallel to one another also labeling with correct symbols. Please draw and label on the back of the paper.
Data Analysis, Probability and Statistics	
Look at the graph to the right: What does it show? Do you think it is anomaly windy there? Do you think the summer months would more or less windy? Is it a good place for a Wind Turbine? Answer on back.	








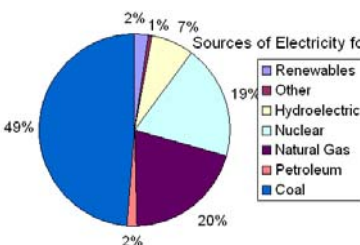
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.6.1

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Convert the following decimals into fractions: 0.666 = _____ 0.166 = _____		Tia is baking cookies. The cookies have to bake for $\frac{3}{4}$ an hour. If they have already been cooking for $\frac{1}{2}$ an hour, how much longer do they need to cook? (Fraction form) _____	
Algebra & Functions		Geometry	
True or False: If $xy = 0$, then $x = 0$ or $y = 0$. _____ Solve: $0(28 \times 90) =$ _____		Pair the correct symbol with the name of what it stands for: <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  A  AB </div> <div style="text-align: center;">  AB  AB </div> <div style="text-align: center;">  <ABC </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> Point Parallel Ray Angle </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> Perpendicular Line </div>	
Data Analysis, Probability and Statistics			
Look at the graph & answer on back What does it show? What are the most obvious trends? Do you think there has been growth in particular areas over time, & if so, which areas? What could be in the 'other' category?			



Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.6.2

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Convert the following fractions into decimals: $9/10 =$ _____ $7/12 =$ _____		If Cassandra wants to go to dinner in $4 \frac{3}{4}$ hours and it is 2:30, what time will she go to dinner? _____ 	
Algebra & Functions		Geometry	
True or False? $3(5) = 15$ is equal to $15/5 = 3$. _____ $48/12 = 4$ is equal to $4(12) = 48$ _____		Fill in the blank and draw an angle with each angle type discussed. An Acute angle is less than _____ degrees, an Obtuse angle is greater than _____ degrees, and a Right angle is exactly _____ degrees.	
Data Analysis, Probability and Statistics			
Go to both http://skystream.d261.k12.id.us/Welcome.html and http://69.20.174.50/Skyline WindTurbine.html and compare the "Real Time Chart". How are they similar? How are they different? Is one producing more energy than the other turbine? Would you rather have a turbine in Jerome, ID or Idaho Falls, ID? Answer on back.			

Name: _____


Date: _____

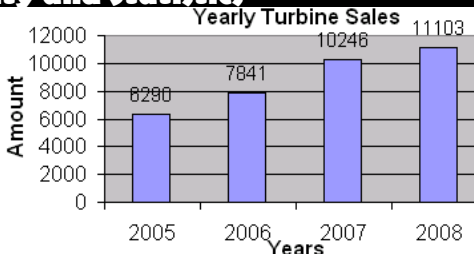
Temperature: _____

Daily Math Review, Grade 6.6.3

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
Convert the following decimals into fractions: $0.6 = \underline{\hspace{2cm}}$ $0.95 = \underline{\hspace{2cm}}$	Mike is planning to watch a movie. The movie is $2 \frac{1}{4}$ hours long. If he starts it at 7:45, what time will it be when the movie is over? _____

Algebra & Functions	Geometry
Which of the following properties does this equation use? Circle all that apply. $a(b + c) = ab + ac = ba + ca$ Commutative Associative Zero Distributive	How many and what type of angle is the figure composed of? <div style="text-align: center;">  </div> _____

Data Analysis, Probability and Statistics	
What does the graph say? Do you think that the trend will continue? State a guess as to what 2009's totals will be. Anything else you find interesting? Answer on the back.	<div style="text-align: center;">  </div> _____

Name: _____

Date: _____

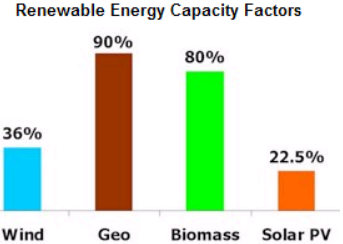

Temperature: _____

Daily Math Review, Grade 6.6.4

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
Convert the following fractions into decimals: $11/20 = \underline{\hspace{2cm}}$ $6/8 = \underline{\hspace{2cm}}$	Mia has to drive to school today. School starts at 8:30 A.M. and it takes her $\frac{3}{4}$ an hour to drive there. If she leaves at 7:50, will she make it on time? _____

Algebra & Functions	Geometry
What property does the following equation demonstrate? $a + (b + c) = b + (b + a) = c + (a + b)$ Distributive Commutative Associative	Draw a figure that uses six obtuse angles, six acute angles, several rays, and label all the angles and rays with the correct symbols. Be creative.

Data Analysis, Probability and Statistics	
Look at the graph to the right: What do you think it states? Capacity has to do with how often it is running & how much it costs. Which of the 4 do you think would be the best to further develop? Which is the most limited? Answer on the back.	<div style="text-align: center;">  </div> <div style="text-align: center;">  </div> _____

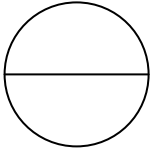

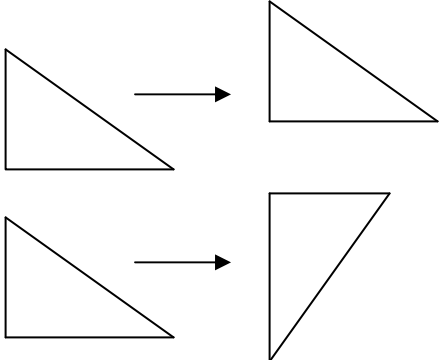
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.7.1

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement
Which of the following is a prime number? 42 81 129 73 or 95 State another example of a prime. _____		Find the Area and Circumference of the circle when its diameter = 7 cm. Note: $A = \pi r^2$ and $C = \pi d$ _____ 
Algebra & Functions		Geometry
Evaluate $4x(y + z)$ if $x = 10$, $y = 8$, and $z = 21$. _____ 		Which of the following is a rotation? 
Data Analysis, Probability and Statistics		
The following numbers are average wind speeds for 10 minute segments on May 12, 2009 in Jerome Idaho. Use the data to make a Broken Line Graph showing the wind variations for these five segments shown: 12.4, 13.2, 13.7, 13.6, 8.8 Use the back of the page to draw your graph.		


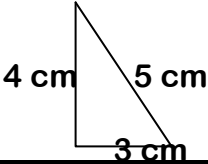

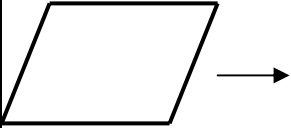
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.7.2

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement
Which of the following is a composite number? Circle the correct answer and state another example. 13, 23, 29, 27, 73, or 91.  _____		Find the Area and Perimeter of the triangle when $A = \frac{1}{2}bh$. _____ 
Algebra & Functions		Geometry
Evaluate the following equation if $a = 7$, $b = 11$, and $c = 4$. $b(2a) + a(c) = ?$ _____ 		Draw an example of a parallelogram that has been translated upwards and to the right: 
Data Analysis, Probability and Statistics		
The world around us is composed of many elements & these elements all different. One way is at what temperature they melt, become a liquid. Here is a list of elements with their corresponding melting points: Gallium = 30° C, Potassium = 64° C, Arsenic = 81° C, and Sodium = 98° C. C = Celsius. Make a bar graph showing the different melting points on the back of the paper.		

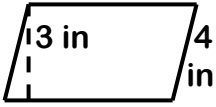

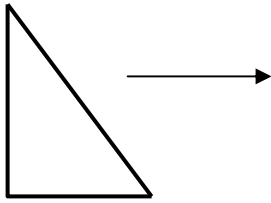
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.7.3

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Complete the Prime Factorization of the following numbers: 18 = _____ 12 = _____		Find the Area and Perimeter of the parallelogram when $A = bh$. _____	
		<div style="text-align: right;">9 in</div> 	
Algebra & Functions		Geometry	
Evaluate the following equation if $x = 12$, $y = 14$, and $z = 18$: $2x + yz = ?$ _____		Draw an example of a triangle that has been rotated clockwise 180° or twice 90° . Label the original and the rotated example.	
			
Data Analysis, Probability and Statistics			
Go to http://69.20.174.50/Skyline_WindTurbine.html and watch the data for a while. The data updates every 10 seconds. Record the wind speed 10 times in a row and make a frequency chart for those wind speeds. Make sure every thing is labeled correctly and draw it on the back of the paper. Check out the other numbers on the site while you are there.			

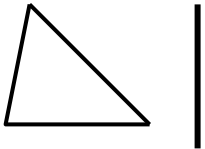

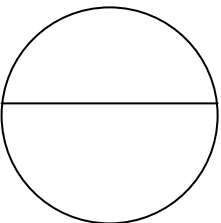
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.7.4

Sponsored by the Idaho National Lab (INL)

Number and Operation		Geometry	
Complete the Prime Factorization of the following numbers: 21 = _____ 150 = _____		Draw a reflection of the figure over the line: _____	
			
Algebra & Functions		Measurement	
Evaluate the following expression if $a = 22$, $b = 12$, and $c = 7$: $3a + 2ab + c = ?$ _____		Find the Area and Circumference of the circle when $A = \pi r^2$ and $C = \pi d$. Measure the diameter of the circle in inches with a ruler.	
			
Data Analysis, Probability and Statistics			
Joe decides to buy a Solar Panel for his home. He has done the research and has it narrowed down to 4 different brands: GreenBrilliance (GB), Suniva, SunPower (SP), and Asola. He decides to take a poll of what his neighbors have to help him decide. 8 people have GB, 14 have Suniva, 2 have SP, and 5 have Asola. Draw a line plot for this information on the back.			
		<hr/> <hr/> <hr/> <hr/>	

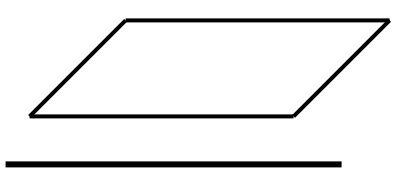
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.8.1

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Identify both the common factors and multiples of the two following numbers: 64 and 56 Factors: _____ :Multiples _____		Find the Area and Perimeter of the triangle when $A = \frac{1}{2}bh$. Measure the sides with a ruler in inches. _____	
Algebra & Functions Evaluate the following expression if $x = 38$, $y = 20$, and $z = 55$: $x(3z + y) = ?$ _____		Geometry Reflect the following figure over the line: 	
Data Analysis, Probability and Statistics Go to http://69.20.174.50/Skyline_WindTurbine.html and record the Power and wind speed for ten intervals. The page will renew every 10 seconds. Then take this information and draw a broken line graph that demonstrates how the power fluctuates with the wind speed. Draw the graph on the back of the sheet and make sure to label everything correctly. Be creative!			



Name: _____

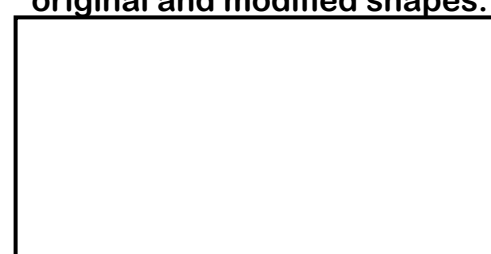
Date: _____

Temperature: _____

Daily Math Review, Grade 6.8.2

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Complete the Prime Factorization of the following numbers: $64 =$ _____ $75 =$ _____		Find the Area and Perimeter of the parallelogram when $A = bh$. Measure the sides with a ruler in inches. _____	
Algebra & Functions Evaluate the following expression if $a = 38$, $b = 21$, and $c = 38$: $c(4ab) + 2 = ?$ _____		Geometry Draw a shape, rotate it 90° counter clockwise, and then translate the shape down wards and to the right. Show and label original and modified shapes.	
Data Analysis, Probability and Statistics Densities, or the mass of an object divided by its volume, vary greatly for everything on Earth. Here are some densities of some common items: Air = 1.2 kg/cm^3 , Plastic = 860 kg/cm^3 , Water = 1000 kg/cm^3 , and the Earth = 5515 kg/cm^3 . Make a bar graph that compares the densities of those four things. Draw it on the back of the paper. Why do you think that plastic is able to float on water? (Hint: look at the densities.)			



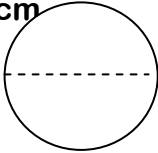

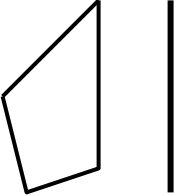
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.8.3

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement
List three prime and three composite numbers: Prime: _____ :Composite _____		Find the Area and Circumference of the circle when $A = \pi r^2$ and $C = \pi d$. $d = 18 \text{ cm}$ 
Algebra & Functions		Geometry
Evaluate the following expression if $x = 45$, $y = 6$, and $z = 24$: $4xz + 6y + z = ?$ _____ 		Reflect the figure over the line and then proceed to translate it downward: 
Data Analysis, Probability and Statistics		
Go to http://69.20.174.50/Skyline_WindTurbine.html and record the Turbine Speed in RPMs and the Power for five intervals. The page refreshes every 10 seconds. Once you have that recorded, draw a Broken Line Graph that shows how the both the Turbine Speed and Power fluctuate. (Hint: Draw one line = Power, and another in a different color = the Speed.) Draw your graph on the back of the paper.		

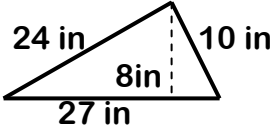


Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.8.4

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement
Identify the common factors and multiples between the following numbers: 81 and 117 Factors: _____ :Multiples _____		Find the Area and Perimeter of the triangle when $A = \frac{1}{2} bh$. 
Algebra & Functions		Geometry
Evaluate the following expression when $a = 67$, $b = 35$, and $c = 23$: $a + 6c + ab = ?$ _____ 		Draw a shape, rotate it 90° clockwise, and then reflect it over a line, either to the right or to the left. 
Data Analysis, Probability and Statistics		
When do Solar Panels Produce the most electricity? Here is the electricity created by a Solar Panel field in California by month: Aug. = 17500 kWh, Nov.= 10000 kWh, Feb.= 10000 kWh, May = 20000 kWh. Make a bar graph that shows the trends in energy production for Solar Panels throughout the year. Please draw the graph on the back of the paper.		

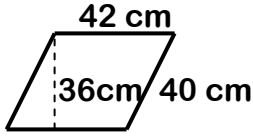

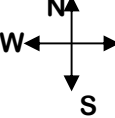
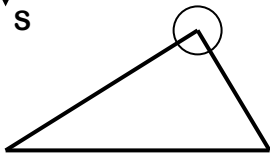
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.9.1

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Solve the following: $(8/12) \times (9/12) =$ _____ $(4/5)/3 =$ _____		Find the Area and Perimeter of the parallelogram when $A = bh$. _____	
			
Algebra & Functions		Geometry	
Solve the following equations for x: $23 + x = 53$ $x - 32 = 45$ $x =$ _____ $x =$ _____		 <p>If the following figure is rotated 180° clockwise and translated to the right, what way will the top point of the triangle be facing?</p>	
Data Analysis, Probability and Statistics		 <p>Show all work needed.</p>	
Because of the weather & the water cycle, rainfall is different for every area in the world. Make a line plot with the following information about rainfall averages: Paris, France = 82.2 in., New York, U.S. = 59.9 in., London, England = 29.6 in, Rome, Italy = 31.2 in. (Hint: make one x equal to several inches of rainfall.) Draw the graph on the back of the paper.			

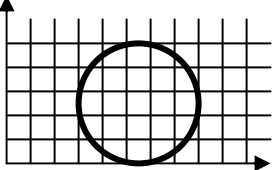
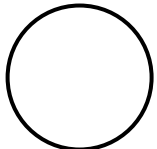
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.9.2

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Solve the following: $2.98 \div 1.03 =$ _____ $4.32 \times 2.76 =$ _____		Find the Area and Circumference of the circle when $A = \pi r^2$ and $C = \pi d$. Each line = 1. _____	
			
Algebra & Functions		Geometry	
Solve the following equations for x: $73 - x = 100$ $x + 52 = 63$ $x =$ _____ $x =$ _____		<p>Reflect the following shape over the line and rotate it 90° counter clockwise. What happened? Why do you think that is? Answer on back.</p>	
Data Analysis, Probability and Statistics			
Go to: http://skystream.d261.k12.id.us/Welcome.html and click on the 10 minute average log for May 2009. The third column from the left is wind speeds. Pick 10 wind speeds that are in order and make a line plot for the data on the back of the paper. Explore the site a little. Do you find anything interesting? Be Creative.			

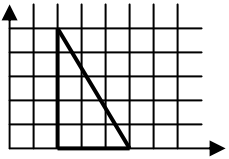
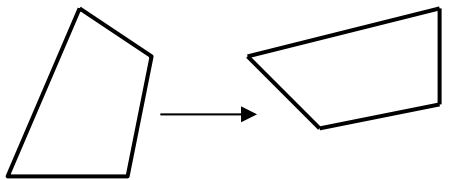
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.9.3

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement
Solve the following: $168 \div 14 =$ _____ $38 \times 172 =$ _____		Find the Area of the triangle when $A = \frac{1}{2}bh$. Increments on graph = 1 
Algebra & Functions		Geometry
Solve the following equations for x: $32x = 64$ $84 \div x = 108$ $x =$ _____ $x =$ _____		List the whether a rotation, translation, or reflection has affected the shape. 
Data Analysis, Probability and Statistics		
Liz's class just finished a unit on wind energy at her school and her teacher had the class fill out a paper that had them tell what they liked about the wind. Here were some of their answers: 5 people liked the fact it produced energy, 7 liked it for flying a kite, 2 people liked it for making waves, and 6 people simply thought it was interesting. Make a frequency graph on the back of the paper that illustrates this data.		_____

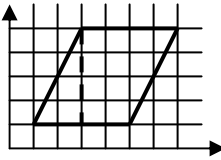
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.9.4

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement
Solve the following: $(\frac{4}{7} + \frac{3}{5}) + (\frac{1}{2} - \frac{3}{4}) + (\frac{11}{12}) =$ _____		Find the Area of the parallelogram when $A = bh$. Increments on graph = 1 
Algebra & Functions		Geometry
Solve the following equations for x: $x \div 30 = 135$ $62x = 186$ $x =$ _____ $x =$ _____		Draw a shape, reflect it upwards over the line, and rotate it clockwise 90° . Draw the original and all shapes that follow. _____
Data Analysis, Probability and Statistics		
Make a frequency graph dealing with the following wind turbine tower heights appearing a certain amount of times: 30 meters = 5 times, 40m = 2, 60m = 10, 75m = 3, 110m = 20. Why do you think that the taller heights have a greater frequency? What height would you build your wind turbine? Write your graph and your answers on the back of the paper.		

Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.10.1

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Solve the following: $14.098 + 15.997 - 12.356 + 2.01 =$ _____		Josh is doing his homework and has been working for 60 minutes. How many seconds is that? $60 \text{ minutes} =$ _____	
Algebra & Functions		Geometry	
Solve the following equations for x: $x + 28 = 173$ $x - 57 = 141$ $x =$ _____ $x =$ _____		True or False: Similar shapes have the same shape but are not necessarily the same size. _____	
Data Analysis, Probability and Statistics		Congruent shapes have that same angles, but don't have to be the same size. _____	
Temperatures vary greatly throughout the year, especially at high altitudes. The average temperatures year round in degrees for Boise, ID are: 28, 36, 42, 48, 58, 67, 74, 74, 64, 52, 40, 30. What is the range for this set of data? _____		A line of symmetry cuts a shape into identical halves. _____	

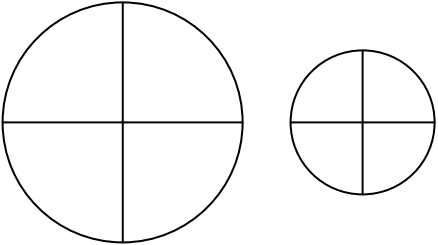
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.10.2

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Solve the following: $(7/4) \times 12 = ?$ $(6/10) \div 2 = ?$ $240 \times \frac{1}{2} = ?$ _____		Erin is baking a lot cookies and the recipe calls for 16 pints of water. How many quarts is that? If she wants 5 quarts, is that enough? _____	
Algebra & Functions		Geometry	
Solve the following expressions for x: $15 + x = 121$ $63 - x = 89$ $x =$ _____ $x =$ _____		Are the following shapes similar, congruent, or neither? 	
Data Analysis, Probability and Statistics			
Go to http://69.20.174.50/Skyline_WindTurbine.html and click on the month of June 2009 and look at the wind data. Find the wind speeds column and pick 10. Write then on the back of the paper and then find the Range for that set of data. Write it below. _____			

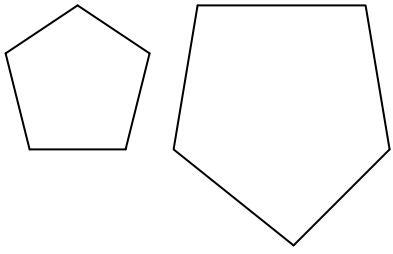
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.10.3

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement
Solve the following: $(\frac{3}{5}) \times (\frac{2}{3}) = ?$ $(\frac{15}{10}) \times (\frac{3}{2}) = ?$ _____		Mia is measuring out a chemical for her experiment. She measures it in centiliters but realizes the trial calls for milliliters. How many milliliters is 3.094 centiliters? _____
Algebra & Functions		Geometry
Solve the following expressions for x: $32x = 160$ $47 \div x = 3$ $20x = 64$ x = _____ x = _____ x = _____		Are the following shapes similar, congruent, or neither?  _____
Data Analysis, Probability and Statistics		
Because of the water cycle and different wind patterns over the world, the amount of rainfall for every state varies greatly. Here are some average amounts for several states: Idaho = 12.5 in, Hawaii = 22.2 in, Louisiana = 62.1 in, Alaska = 15.8 in, and Colorado = 15.5 in. What is the range for this data? _____		

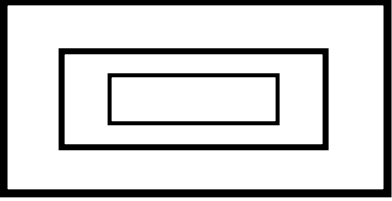
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.10.4

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement
Solve the following: $6.024 \times 1.25 = ?$ $\frac{2}{3} \div 8 = ?$ $7.02 \div 3.1 = ?$ _____		Tony just weighed himself for wrestling in pounds, but the paper calls for ounces. How many ounces is 125 pounds? _____
Algebra & Functions		Geometry
Solve the following expressions for x: $84x = 28$ $32 \div x = 6$ $72x = 18$ x = _____ x = _____ x = _____		Are the following shapes similar, congruent, or neither?  _____
Data Analysis, Probability and Statistics		
Go to http://skystream.d261.k12.id.us/Welcome.html and click on 'May 2009' on the right hand side of the page. Go to the wind speeds column and select 10 different speeds that occur around the same time. Write this data on the back of the paper and find the Range for this data. _____		

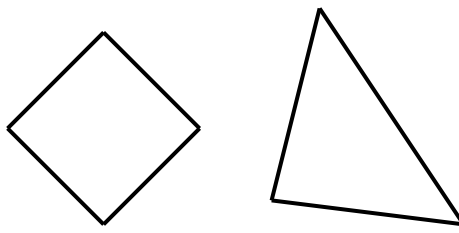
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.11.1

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
Solve the following expression by using the order of operations rule: $8 \times (28 + 43) + (4 - 2) =$ _____	Brian is measuring out the distance to his friend's house down the street. He found that it is 350 feet away, but wants this amount in yards. How many yards is this? _____
Algebra & Functions	Geometry
State the rule for the following pattern of numbers: 1, 4, 7, 10, 13, 16, 19, 22 ... Rule = _____	Draw a line of symmetry for the following shapes. If there is not one for a particular shape, write 'none' below it.
Data Analysis, Probability and Statistics	
Wind speeds vary greatly across the U.S. mostly because of geography. Mountains can provide a barrier against it, but they can also funnel wind. Here are some average wind speeds from around the U.S.- 10.6 mph, 16.9, 6.6, 9.4, 7.5, 8.1, 10.5, 10.2, 5.4, and 7.6. What is the range for this data? _____	


Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.11.2

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
Solve the following expression by using the order of operations rule: $10 + [(12 - 9) + (18 + 27)] =$ _____	Yesterday, Nick walked to school and counted out about how many meters it was from his house. His count totaled 1,245 meters. How many kilometers is this? Is that a long way? _____
Algebra & Functions	Geometry
State the rule for the following pattern of numbers: 100, 85, 70, 55, 40, 25 ... Rule = _____	Draw a line of symmetry for the following picture. If there is not one for a particular shape, write 'none' below it.
Data Analysis, Probability and Statistics	
All states in the U.S. have a different ranking as to who has the greatest wind capacity. The top three are Texas, California, and Iowa. The top ten wind capacity amounts in Mega Watts are: 3352, 967, 818, 496, 390, 2376, 897, 591, 438, and 366. What is the range for this data? _____	


Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.11.3

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement
Solve the following expression by using the order of operations rule: $5 \times (4 \times \frac{1}{2}) + 8 \times \frac{1}{4} + (7 - 3) =$ _____		Alexis went to a volunteer Girl's Camp for five days. When she came back, she had to fill out a sheet telling how many hours she spent there. How many hours are in five days? _____
Algebra & Functions		Geometry
State the rule for the following pattern of numbers: $\frac{1}{5}, \frac{3}{5}, 1, 1 \frac{2}{5}, 1 \frac{4}{5}, 2 \frac{1}{5}, \dots$ Rule: _____		Draw a line of symmetry for the following picture. If there is not one for a particular shape, write 'none' below it. 
Data Analysis, Probability and Statistics		
Solar panels are mainly made from an element called Silicon. Silicon is very abundant and makes up 25.7% of the Earth. Its atomic number, or the amount of smaller particles it is made up of, is 14. Here are some more atomic numbers of elements: 32, 101, 53, 12, 1, 47, and 19. What is the range for this data? _____		


Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.11.4

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement
Solve the following expression by using the order of operations rule: $10 \div [(2 + 6) - (2 \times 2)] + 22 =$ _____		Jackie is measuring our lemonade for her lemonade stand. She has made 6 gallons worth, but how many cups is in 6 gallons? _____
Algebra & Functions		Geometry
State the rule for the following pattern of numbers: $1.045, 2.090, 3.135, 4.180, 5.225 \dots$ Rule: _____		Draw a line of symmetry for the following picture. If there is not one for a particular shape, write 'none' below it. 
Data Analysis, Probability and Statistics		
A wind farm in Kansas just put in some new turbines and has been closely monitoring its production rate over the last year. Here are the production numbers from 2007 in the thousands: 75, 40, 54, 55, 39, 40, 30, 33, 48 and 57. What is the range for this data? _____		

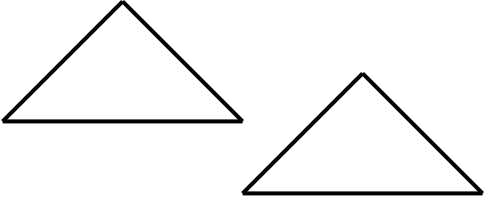
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.12.1

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
Solve the following expression by using the order of operations rule: $15 \times 4 + 27 - 6 + (3 \times 8) =$ _____	Ray is weighing his bag for an airplane trip. He weighed it in kilograms, but the airport wants the measurement in grams. If his bag is 50 kilograms, how many grams is that? _____
Algebra & Functions	Geometry
State the rule for and extend the pattern of numbers 4 more numbers: $\frac{1}{2}, 2, 3\frac{1}{2}, 5, 6\frac{1}{2} \dots$ Rule & Next Numbers: _____	Are the following shapes congruent, similar, or neither? Show the line of symmetry if possible.
Data Analysis, Probability and Statistics	
Go to http://69.20.174.50/Skyline_WindTurbine.html and click on 'March 2009'. Find the power column that lists the amount of Wattage that is being produced by the SkyStream at Skyline High School in Idaho. Pick 10 of those amounts that are fairly close together and write them on the back of the paper. What is the Range of that data? _____	

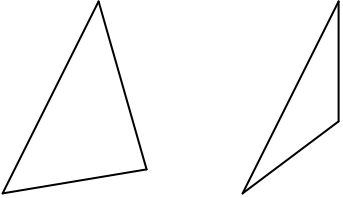
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.12.2

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
Solve the following expression by using the order of operations rule: $25 + [3 \times (19 - 15) + 12] =$ _____	Kevin wants to know how much his dog weighs, but his scale only weighs in ounces. If his dog weighs 960 ounces, how many pounds is that? _____
Algebra & Functions	Geometry
Extend the following pattern of numbers 5 more numbers: $0.25, 0.61, 0.97, 1.33, 1.69 \dots$ Next Numbers: _____	Are the following shapes congruent, similar, or neither? Show the line of symmetry if possible.
Data Analysis, Probability and Statistics	
The top of a wind turbine that holds all of the gears is called a nacelle. The nacelle is a necessary part of the wind turbine and ranges in size and can be large enough for a person to walk around in. Find the range of the following sizes: 2 feet, 6 feet, 5 inches, 13 feet, 3 feet, 17 feet, and 24 feet. _____	

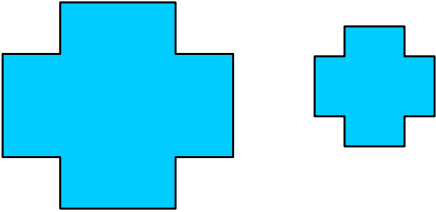
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.12.3

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Solve the following expression by using the order of operations rule: $32 \times [(76 - 42) + (48 \div 6)] =$ _____		Roxy has been walking her dog for 3 hours straight. How many seconds is that? How many minutes? _____	
Algebra & Functions		Geometry	
Extend the following pattern of numbers 5 more numbers: $\frac{1}{4}, 1, 1\frac{3}{4}, 2\frac{1}{2}, 3\frac{1}{4} \dots$ Next Numbers: _____		Are the following shapes congruent, similar, or neither? Show the line of symmetry if possible.	
Data Analysis, Probability and Statistics			
Go to both http://69.20.174.50/Skyline_WindTurbine.html and http://skystream.d261.k12.id.us/Welcome.html . On both websites to 'April 2009' and look at the data. Pick 10 numbers from the wind speed categories on both and write them on the back of the paper. What is the range for both? How do they compare? Is one's range greater than the other's? Write answers on the back.			

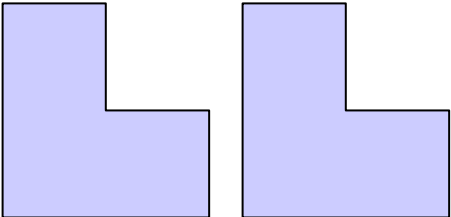
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.12.4

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Solve the following expression by using the order of operations rule: $56 \div [8 \times (43 - 41)] + 23 =$ _____		Billy is throwing a ball with friends. On his last throw, they decide to measure it and found that it was 500 centimeters long. How many kilometers is that? _____	
Algebra & Functions		Geometry	
State the rule for and extend the following pattern of numbers 4 numbers: $\frac{2}{5}, \frac{4}{5}, 1\frac{1}{5}, 1\frac{3}{5}, 2 \dots$ Rule & Numbers: _____		Are the following shapes congruent, similar, or neither? Show the line of symmetry if possible.	
Data Analysis, Probability and Statistics			
Energy produced from water, or hydroelectricity, has a large role in the renewable resources group. Here are some percentages of countries total energy consumption from hydropower: Angola: 90%, Austria = 57%, Brazil = 83%, Costa Rica = 76%, India = 15%, U.S. = 7%, Russia = 17%, and Spain = 9%. What is the range or that data? _____			

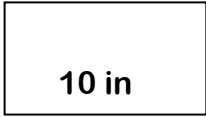
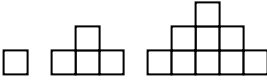
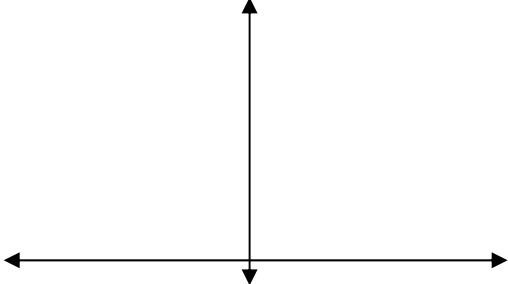
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.13.1

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Your brother traveled 117 miles in 2.25 hours to come home for school break. What is the average speed that he was traveling? _____		Find the Perimeter and Area of the rectangle. 8 in  _____	
Algebra & Functions		Geometry	
Show the next two steps in the pattern of shapes:  _____		Fill in the coordinate plane with an appropriate scale and plot and label the following points: (-6,7), (12,8), (4,9), (-2,3), (8,1), and (2,0). 	
Data Analysis, Probability and Statistics			
Garth is growing a garden but has mixed up all his seeds. He decides to plant them anyway. He has 8 carrots, 10 squash, 12 asparagus, and 4 lettuces. What is the probability that when he draws a seed out of the bag it will be a squash? An asparagus? A lettuce or a carrot? _____			


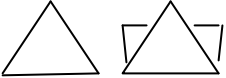
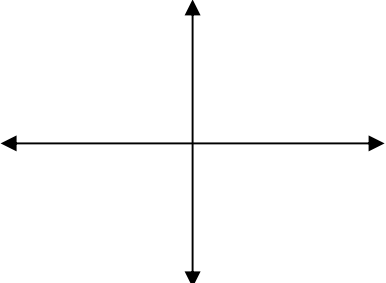
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.13.2

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
You have 15 yards of ribbon for your gift boxes. Each box receives the same amount of ribbon. How much ribbon will each of your 20 gift boxes receive? _____		Find the Perimeter and Area of the rectangle. 18 in  _____	
Algebra & Functions		Geometry	
Show the next two steps in the pattern of shapes:  _____		Fill in the coordinate plane with an appropriate scale and plot and label the following points: (-5,3), (6,-3), (-4,-1), (0,5), (-2,5), & (1,3). 	
Data Analysis, Probability and Statistics			
Nick is buying a Wind Turbine. He knows that Nordex makes 4 different types, GE Energy makes 3 different types, Northern Power makes 2, and AAER makes 7. What is the probability that Nick will buy a Nordex if he randomly chooses a manufacturer? A Northern Power? _____			

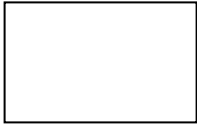
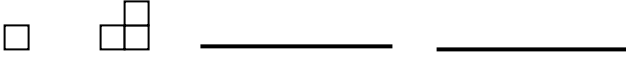
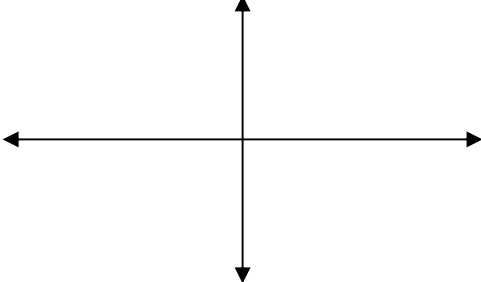
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.13.3

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Sam gave Jen $\frac{1}{2}$ of his jujubes. Jen ate $\frac{1}{2}$ of the jujubes and gave the rest to Kyle. Kyle kept 8 of the jujubes and gave 10 to Kim. How many jujubes did Jen eat? _____		Find the Perimeter and Area of the rectangle. 20 in  _____ 35 in	
Algebra & Functions		Geometry	
Show the next two steps in the pattern of shapes:  _____		Fill in the coordinate plane with an appropriate scale and plot and label the following points: (5,10), (15,-10), (-10,5), (20,-15), & (-5,5). 	
Data Analysis, Probability and Statistics			
Josh is wandering through his back yard and notices that there are 8 honeysuckle flowers, 17 butterfly bushes, 12 violets, and 23 roses. He decides to pick some for his girlfriend. If he randomly reaches out to pick one with his eyes shut, what is the probability that he will choose a violet? A Rose or a honeysuckle? _____			

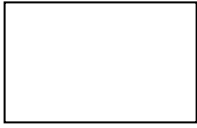

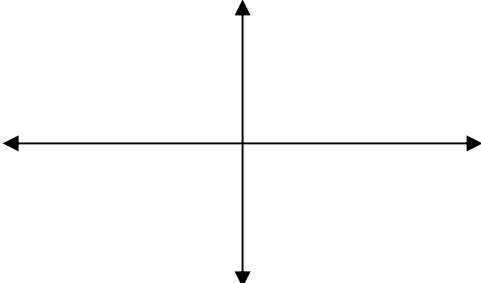
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.13.4

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
You finally get an allowance! You saved \$2 in January, \$4 in February, \$8 in March, \$16 in April, and continued to follow this pattern till December. How much money do you have in 12 months? _____		Find the Perimeter and Area of the rectangle. $\frac{1}{3}$ in  _____ $\frac{5}{6}$ in	
Algebra & Functions		Geometry	
Show the next two steps in the pattern of shapes:  _____		Fill in the coordinate plane with an appropriate scale & plot & label the following points: (4,-2), (6,0), (10,8), (-2,10), (-8,-4), & (-6,0). 	
Data Analysis, Probability and Statistics			
Mia is looking at a map of the U.S. She notices it has been split up into sections. There are 6 in the North West, 7 in the South West, 10 in the middle, 15 in the North East, and 12 in the South East. If she picks an area with her eyes closed, what is the probability she would pick a Northwestern state? A Southeastern? A Northeastern? _____			

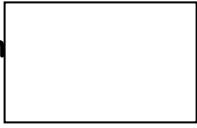
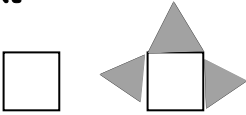

Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.14.1

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Jeff has $\frac{1}{2}$ pizza left in the fridge. At breakfast he ate $\frac{1}{3}$ of it. What fraction of the original pizza does he have left for lunch? _____		Find the Perimeter and Area of the rectangle. 42 in  _____ 57 in	
Algebra & Functions		Geometry	
Show the next two steps in the pattern of shapes:  _____		Draw a figure that is composed of 4 acute angles and 4 obtuse angles. Label the type of angles. 	
Data Analysis, Probability and Statistics			
Jason just bought a book about Photosynthesis, or the way that plants make food and energy. The book has 250 pages. What is the probability that if he opens the book, the page will be in the first third? The last two thirds? The first $\frac{1}{5}$ th ? The last $\frac{1}{10}$ th ? On page 57? _____			



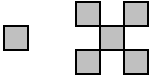

Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.14.2

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
It takes 6 cubes to build a staircase with 3 steps. How many cubes will be needed for 11 steps? 		Find the Perimeter and Area of the rectangle. 1.75 in  _____ 2.045 in	
Algebra & Functions		Geometry	
Show the next two steps in the pattern of shapes:  _____		How many angles do five connecting rays form? Draw the figure that illustrates this. A. 12 B. 8 C. 14 D. 10 	
Data Analysis, Probability and Statistics			
Billy was given a set of model air plains for his birthday. He noticed that there are 13 carriers, 3 helicopters, 18 jets, 8 bombers, and 1 passenger plane. If he were to draw a single plane out of the box, what is the probability that he will choose a jet? A carrier? A helicopter? _____			

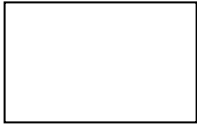
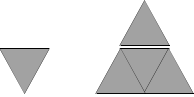

Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.14.3

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
The tables at a party are shaped like a hexagon. If you put the tables together, how many would you need for 50 people? _____		Find the Perimeter and Area of the rectangle. $\frac{4}{5}$ in  _____ $1 \frac{3}{5}$ in	
Algebra & Functions		Geometry	
Show the next two steps in the pattern of shapes:  _____		Write the symbol that corresponds with the correct thing it stands for- (i.e.- parallel =) Ray = _____  Angle (<) = _____ Line Segment = _____ Perpendicular = _____	
Data Analysis, Probability and Statistics			
A company is looking to build a geothermal site in the Western U.S. A geothermal plant uses the heat from underground to generate power. The company has the list narrowed down to 7 sites in Idaho, 10 in Montana, 14 in Wyoming, 2 in California, and 5 in Colorado. What is the probability they will choose a site in Idaho? In California? In Wyoming or Montana? _____			


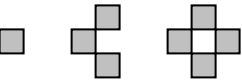

Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.14.4

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
At your birthday party, you had 7 8-slice pizzas. 41 slices were eaten. What fraction of pizza is left? _____		Find the Perimeter and Area of the rectangle. 23.53 in  _____ 38.75 in	
Algebra & Functions		Geometry	
Show the next three steps in the pattern of shapes:  _____		How many and of what type of angle is the figure composed of?  _____	
Data Analysis, Probability and Statistics			
Julie has a bag full of marbles that she bought at the store. In the bag, there are 23 red marbles, 45 blue, 16 green, 34 yellow, and 2 large black marbles. If she reaches her hand into the bag without looking, what is the probability that she will pull out a blue marble? A yellow? A black? A Green? _____			


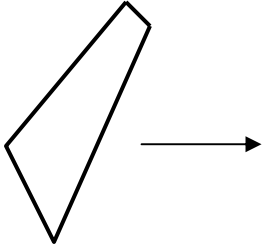
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.15.1

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
State whether the following number is an overestimation: John has to walk about 32 miles to school, but it only takes him 10 minutes! _____	Find the Perimeter and Area of the rectangle. _____ 
Algebra & Functions	Geometry
As a car accelerates down the road, its speed increases as the time increases. Draw a representation of this on a coordinate plane on the back of the paper. Only the first quadrant is needed.	Rotate the following shape 180° to the right. 
Data Analysis, Probability and Statistics	
Dawn is growing algae to make biomass fuel for her car. She has noticed that she is growing four different types: 73 brown, 198 red, 432 orange, and 89 green. What is the probability that she will the green for her fuel? The orange? The red or the brown? _____	


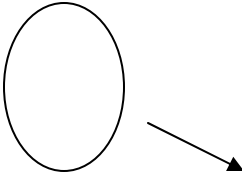
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.15.2

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
State whether the following number is an underestimation: Mia only had to put about 2 gallons of gas into her can in order to fill up the entire tank. _____	Find the Perimeter and Area of the rectangle. _____ 
Algebra & Functions	Geometry
When a plane lands, it applies brakes and decelerates. So as time increases, the plane's speed decreases. Draw a representation of this on a coordinate plane on the back of the paper. Only the first quadrant is needed.	Translate the following shape downward and to the right. 
Data Analysis, Probability and Statistics	
Nicky decided to go out to lunch with her friends on Friday. She noticed that on the menu there were 4 hamburgers, 6 tacos, 3 salads, and 2 soups. If each of her friends ordered a different combination, how many combinations were possible? _____	


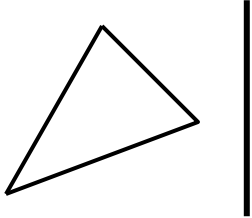
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.15.3

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
State whether the following number is an overestimation or not: Bill had to ride his bike about 2 miles to the grocery store to buy some bread. _____	Find the Perimeter and Area of the rectangle. _____ 26.78 in  37.29 in
Algebra & Functions	Geometry
As the supply of something increases, the demand for the same product decreases. Draw a representation of this on a coordinate plane on the back of the paper. Only the first quadrant is needed.	Reflect the following shape over the line provided: 
Data Analysis, Probability and Statistics	
A Solar Power company wishes to build a solar farm somewhere in California. They notice that there are several optimum spots: 28 in Southern California, 17 in middle California, and 3 in Northern California. What is the probability that they will pick a spot in Northern California? Southern? _____	


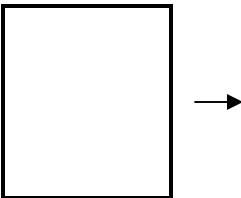
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.15.4

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
State whether the following number is an underestimation or not: It only took Jill about a day to drive all the way from California to Kansas! _____	Find the Perimeter and Area of the rectangle. 326 in _____ 567 in 
Algebra & Functions	Geometry
Will is cooking dinner for his family and is boiling water. As the time increases, so does the temperature. Draw a representation of this on a coordinate plane on the back of the paper. Only the first quadrant is needed.	Rotate the following shape 90° to the left: 
Data Analysis, Probability and Statistics	
Angelina is trying to decide what two renewable energies to do her paper on for English. There are 3 options for wind, 2 for solar, 5 for hydro, and 3 for biomass. How many combinations are possible for her to pick? _____	

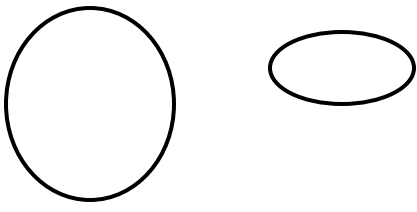
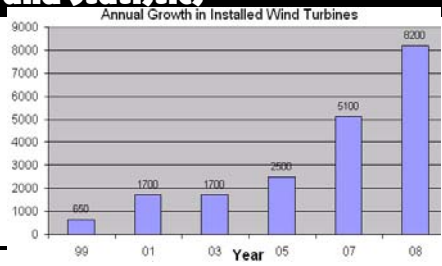
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.16.1

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
State whether the following number is an overestimation or not: It took the bath tube about 1 ½ minutes to empty. _____		Courtney is looking at a map of the U.S. The scale is 4 inches to 1000 miles. How big is the U.S. if it is 10 inches across? _____	
Algebra & Functions		Geometry	
Milly just finished with her shower and is watching the water go out through the drain. As the time increases, the water level decreases. Draw a representation of this on a coordinate plane on the back of the paper.		Are the following shapes congruent, similar, or neither? Draw a line of symmetry if possible.	
<p>If the trend on the graph continues, what will the amount be in 2010?</p> <p>_____</p> <p>_____</p>		 <p>_____</p>	
Data Analysis, Probability and Statistics			
		<p>Annual Growth in Installed Wind Turbines</p> 	


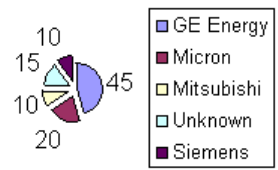
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.16.2

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
State whether the following number is an underestimation or not: Brian was driving to his grandma's house which is 10 miles away, it took him about 2 minutes . _____		Billy is making a model planet for his science class. It was built to a ratio of 1 inch for every 60 miles. If it is 9 inches long, how many miles is that? _____	
Algebra & Functions		Geometry	
Jane took an ice cube outside on a hot day and noticed that as the time increased, the size of the ice cube decreased. Draw a representation of that on a coordinate plane on the back of the paper.		Are the following shapes congruent, similar, or neither? Draw a line of symmetry if possible.	
<p>Look at the graph to the right: What do you think will happen to the graph in the future? Do you think GE will continue to grow or not?</p>			
		<p>Manufacturers' Share of Turbine Production</p> 	


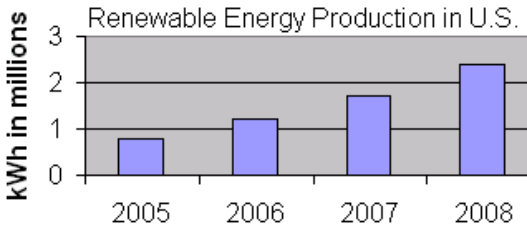
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.16.3

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement											
State whether the following number is an overestimate or not: Jackie ate nearly two whole boxes of crackers. _____		Kevin is looking at a map of Colorado, but there is no scale to tell him how far things are apart. What would be a good scale? _____ In : _____ miles											
Algebra & Functions		Geometry											
Dan accidentally broke an egg onto a hot sidewalk and noticed that the longer the egg was there, the more it became cooked. Draw a representation of this on a coordinate plane on the back of the paper.		Are the following shapes congruent, similar, or neither? Draw a line of symmetry if possible.											
Data Analysis, Probability and Statistics													
Look at the graph to the right: If the trend continues, how much energy will be produced in 2009?													
 <table border="1"> <caption>Renewable Energy Production in U.S.</caption> <thead> <tr> <th>Year</th> <th>kWh in millions</th> </tr> </thead> <tbody> <tr> <td>2005</td> <td>0.8</td> </tr> <tr> <td>2006</td> <td>1.2</td> </tr> <tr> <td>2007</td> <td>1.7</td> </tr> <tr> <td>2008</td> <td>2.3</td> </tr> </tbody> </table>				Year	kWh in millions	2005	0.8	2006	1.2	2007	1.7	2008	2.3
Year	kWh in millions												
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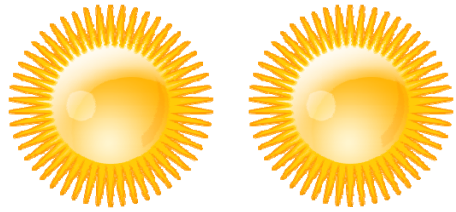
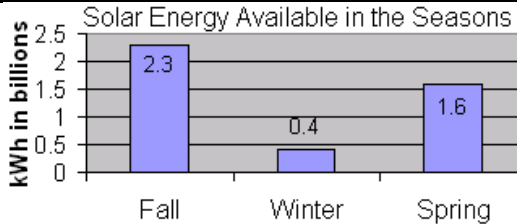
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.16.4

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement									
State whether the following number is an underestimate or not: It took Casey 4 days to drive across the U.S. _____		Amy is building a model volcano and the scale for her model is one inch to 1/2 a mile. If the model is 14 inches tall, how many miles is that? _____									
Algebra & Functions		Geometry									
Ian has been watching the field behind his house for the past month and has noticed that as the month progressed, the corn grew in size. Draw a representation of this on a coordinate plane on the back of the paper.		Are the following shapes congruent, similar, or neither? Draw a line of symmetry if possible.									
Data Analysis, Probability and Statistics											
Look at the graph to the right: If the trend continues, how much energy will be available in Summer?											
 <table border="1"> <caption>Solar Energy Available in the Seasons</caption> <thead> <tr> <th>Season</th> <th>kWh in billions</th> </tr> </thead> <tbody> <tr> <td>Fall</td> <td>2.3</td> </tr> <tr> <td>Winter</td> <td>0.4</td> </tr> <tr> <td>Spring</td> <td>1.6</td> </tr> </tbody> </table>				Season	kWh in billions	Fall	2.3	Winter	0.4	Spring	1.6
Season	kWh in billions										
Fall	2.3										
Winter	0.4										
Spring	1.6										

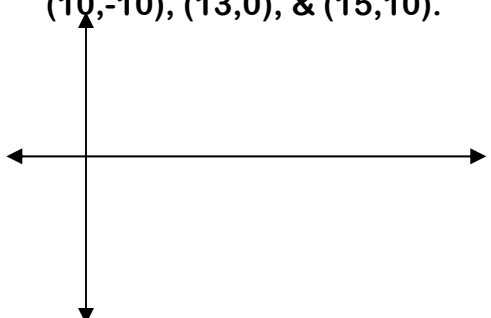
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.17.1

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement												
Put the following numbers in order from least to greatest: $11/12$, $4/5$, $24/25$, $7/8$, and $2/3$.		Suzie is looking at a map. The map is measured in a ratio of 5 mm to 3 miles. If Suzie counts out 6 mm, how many miles is that?												
Algebra & Functions Clint is putting money into a bank. In January he puts in \$20, in February, \$25, in March, \$30. If he continues in this pattern, how much money will he have built up in 12 months?		Geometry Label the plane with an appropriate scale and plot the following points: (5,10), (7,0), (10,-10), (13,0), & (15,10). 												
Data Analysis, Probability and Statistics Two wind companies are competing on the market to supply energy. One owns site A, the other B. Which site and company will produce more energy? <table border="1" data-bbox="665 672 958 903"> <thead> <tr> <th colspan="2">Wind speeds:</th> </tr> <tr> <th>Site A</th> <th>Site B</th> </tr> </thead> <tbody> <tr> <td>20.4</td> <td>12.6</td> </tr> <tr> <td>3.2</td> <td>13.4</td> </tr> <tr> <td>17.1</td> <td>9.8</td> </tr> <tr> <td>12.3</td> <td>18.2</td> </tr> </tbody> </table>			Wind speeds:		Site A	Site B	20.4	12.6	3.2	13.4	17.1	9.8	12.3	18.2
Wind speeds:														
Site A	Site B													
20.4	12.6													
3.2	13.4													
17.1	9.8													
12.3	18.2													

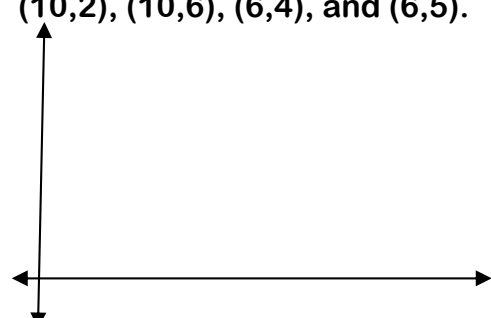
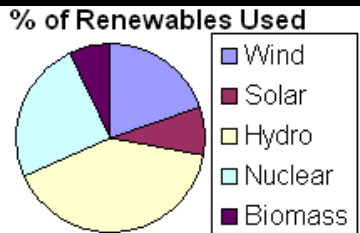
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.17.2

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement
Put the following numbers in order from greatest to least: $3/5$, $2/8$, $1/4$, $10/12$, and $23/25$.		Hillary is helping her mom navigate New York. If on her map 2 mm is equal to 6 miles, how far is 7 mm?
Algebra & Functions Francis is mowing her lawn. If she starts with $1/6$ already done and proceeds to do $1/4$ of the $5/6$ ths left over every half hour, how long will it take her to finish the lawn?		Geometry Label the plane with an appropriate scale and plot the following points: (6,8), (4,6), (2,2), (10,2), (10,6), (6,4), and (6,5). 
Data Analysis, Probability and Statistics Look at the graph to the right: What type of renewable energy will continue to expand? Do you think any will stop growing while others do not? 		


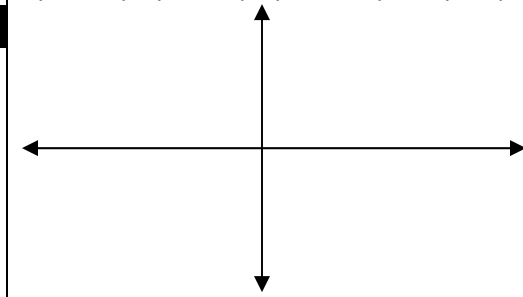
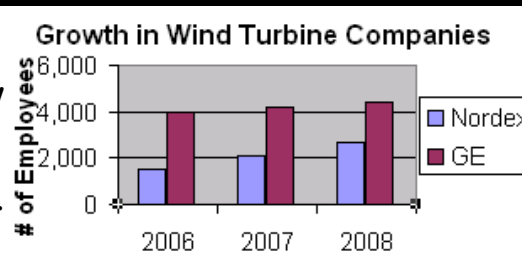
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.17.3

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
Locate the following numbers on the number line & label the line with a scale: -42, 36, 12, -22, 4, and -38. 	Jen is making a model of her house for her science teacher. What would be an appropriate scale for her to use? _____ TO _____
Algebra & Functions	Geometry
Greg is training for a long run. If he runs 2 miles today, 2 and 1/2 tomorrow, 3 the next day and continues on this pattern, how long will it take him to reach 13 miles? _____	Label the plane with an appropriate scale and plot the following points: (-3,6), (7,9), (-1,11), (14,-5), (-13,14), & (0,0). 
Data Analysis, Probability and Statistics	
Look at the graph to the right: If the trend continues, about how many years will it Nordex to surpass GE? Answer on back.	

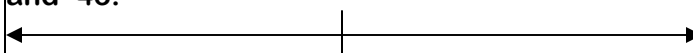
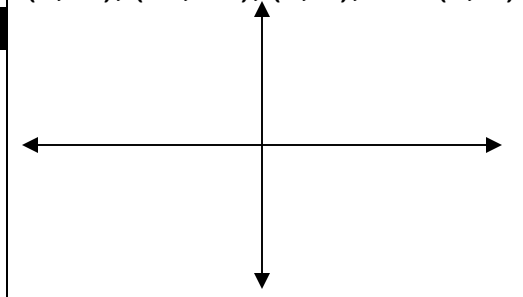
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.17.4

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement										
Locate the following numbers on the number line & label the line with a scale: 50, 26, -18, -37, 9, 0, and -43. 	Kim wants to make a model of how far her house is from school. She lives 20 miles away. What would a good scale be for her? _____ TO _____										
Algebra & Functions	Geometry										
Isabel is starting a business. On the first day she has 22 customers. On the second she has 44. On the third, 88. If the pattern continues, how many customers will she have in ten days? _____	Label the plane with an appropriate scale and plot the following points: (-3,6), (-9,15), (6,12), (12,-15), (3,-9), and (0,-3). 										
Data Analysis, Probability and Statistics											
Look at the chart to the right: If the trend continues, make a prediction as to how big the wind turbine blades will be in 2010.	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2" style="text-align: center;">Wind Turbine Blade Size</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2005</td> <td style="text-align: center;">55 m</td> </tr> <tr> <td style="text-align: center;">2006</td> <td style="text-align: center;">68 m</td> </tr> <tr> <td style="text-align: center;">2007</td> <td style="text-align: center;">87 m</td> </tr> <tr> <td style="text-align: center;">2008</td> <td style="text-align: center;">110 m</td> </tr> </tbody> </table>	Wind Turbine Blade Size		2005	55 m	2006	68 m	2007	87 m	2008	110 m
Wind Turbine Blade Size											
2005	55 m										
2006	68 m										
2007	87 m										
2008	110 m										

Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.18.1

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
Convert the following decimals to fractions: 0.167 = _____ 0.833 = _____	Melissa is making a model of a tree house for her father. She is using a scale of 1 ½ inch to 3 feet. If her model is 5 inches across, how big is the tree house? _____

Algebra & Functions	Geometry
Nicole is stacking blocks in a pyramid form. First she starts with 1, and then adds another layer making it 3. Again she adds another layer making it 6. If she keeps adding layers, how many blocks will she need for a pyramid with 7 layers? _____	How many angles do 4 rays form? Circle the correct answer and draw the figure.

Data Analysis, Probability and Statistics

Looking at the graph to the right, make a prediction as to how much energy is available in the Spring.

Season	kWh in millions
Summer	1.5
Fall	2.0
Winter	0.5

- A. 4
- B. 6
- C. 8
- D. 12



Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.18.2

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
Convert the following fractions to decimals: 11/12 = _____ 15/20 = _____	Penelope is making a map of Europe and Asia. What would be a good scale for her to use? _____

Algebra & Functions

Regina just started her own bank account and wants to have \$300 in it in 6 months. If she puts \$12 in the first month, \$24 the second, \$48 the third, etc. will she make her goal? _____

Data Analysis, Probability and Statistics

Looking at the energy production from one big Wind turbine and one little Wind turbine, how many small would it take to equal on big?

Wind Turbine Size & Production	
Big	Small
2.4 MW	0.08 MW

Geometry

Label all the parts of the following shape:

Angle Line Ray Point

Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.18.3

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
List three composite numbers and three prime numbers: _____	Steve wants to make a piñata that looks like a frog, but wants the dimensions to be right. What scale should he use? _____

Algebra & Functions	Geometry
Tina went to a concert and noticed that the people came in according to a pattern. It started with 15 people, then 30 more entered, and then 60 more. If the concert can hold about 1000 people, how many times can this pattern occur before it is full? _____	What shape can you make out of 8 line segments? Please draw it below. <div style="border: 1px solid black; height: 150px; width: 100%;"></div>

Data Analysis, Probability and Statistics

Looking at the graph to the right, make a prediction as to how much energy will be needed by 2011.

Electricity Needs of U.S.

Year	Electricity Needs
2005	3.65
2006	3.7
2007	3.85
2008	4.1

Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.18.4

Sponsored by the Idaho National Lab (INL)

Number and Operation	Measurement
Complete the Prime Factorization of the following numbers: 68, 112, and 54. _____	You are reading a map and notice it has a scale of $\frac{1}{2}$ inch to 450 miles. How far would 4 and $\frac{1}{4}$ of an inch be in miles? _____

Algebra & Functions	Geometry
A wind turbine is spinning on a hill producing electricity. You notice that for every 5 miles per hour of wind speed, the power produced doubled. If at 5 mph it is producing 2.4 Watts, how much will it produce at 30 mph? _____	How many Angles are made from 6 Rays? Draw the figure below and circle the answer.

Data Analysis, Probability and Statistics

If the trend continues, what will the temperature be if the wind speed is 50 mph?

Wind Chill Index

Wind Speed (mph)	Temperature (F)
0	30
5	25
10	22
15	20
20	18
25	17
30	16
35	15

- A. 10
- B. 14
- C. 15
- D. 20



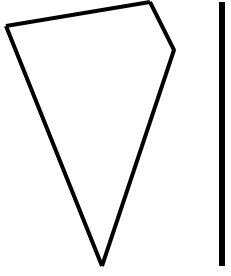
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.19.1

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement
Solve the following: $1098 \times 1.02 =$ $2831 \times 2.12 =$ _____		Abby was just hired at a restaurant and works $8 \frac{1}{2}$ hours a day. If she starts at 7:45 A.M., what time can she go home? _____
Algebra & Functions		Geometry
State what the commutative property is and give an example: _____ _____		Reflect the following shape over the line provided: 
Data Analysis, Probability and Statistics		
Peter is walking through the woods and notices that there are 17 Pine trees, 24 Poplars, 42 Aspens, and 3 Junipers. What is the probability that he might walk into a Pine tree? A Poplar? An Aspen, Poplar, or a Juniper? _____		

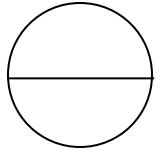
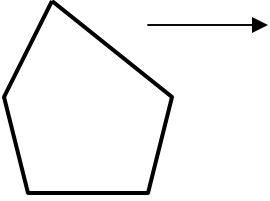
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.19.2

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement
Solve the following: $3/5 \times 5/4 =$ $9/10 \div 12 =$ _____		Find the Circumference and Area when $A = \pi r^2$ and $C = \pi d$. The diameter = 22 in. _____ 
Algebra & Functions		Geometry
Evaluate the following expression when $x = 23$, $y = 14$, and $z = 3$: $3x + [x(yz)] - 6 = ?$ _____		Rotate the following shape 90° to the right. 
Data Analysis, Probability and Statistics		
June is listening to a radio station. The announcer tells her that the station plays 15% country, 50% rock and roll, 25% pop, and 10% classical. June loves rock and roll. What is the probability that she will hear some? What about hearing classical? _____		

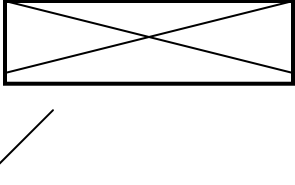
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.19.3

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement
Solve the following using the order of operations property: $12 \times [24 + (32 - 9)] - 18 =$ _____		Bailey is measuring the weight of a watermelon for the fair, but her scale only weighs in pounds. If it weighs 7 pounds, how many ounces is that? _____
Algebra & Functions		Geometry
Solve for x: $32x = 104$ $56 - x = 232$ $63 + x = 72$ x = _____ x = _____ x = _____		Translate the following shape down and to the left: 
Data Analysis, Probability and Statistics		
Mark is planning to go camping in April, May, or June. If the average days for wind to blow in June is 23, in May is 12, and in April is 18, what is the probability that he will have a windy camping trip? What if he just goes for 5 days in June? 5 days in April? _____		


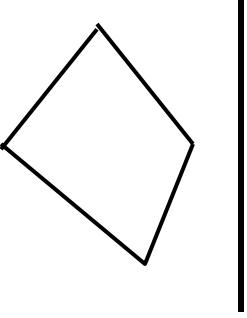
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.19.4

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement
I'm thinking of two numbers, 12 and another. Both numbers have a greatest common factor of 6 and a least common multiple of 36. What is the other number I am thinking of? _____		Find the perimeter and Area of the rectangle? _____ 47.124 in  $76,235 \text{ in}$
Algebra & Functions		Geometry
State the rule and extend the pattern three more places: $0.167, 0.333, 0.5, \text{ and } 0.667 \dots$ Rule = _____		Reflect the following shape over the line given: 
Data Analysis, Probability and Statistics		
Joe wants to go water skiing in July. Usually, there are about 15 days in July where he is from that it rains. If he plans to go for 7 days, what is the probability that he will be rained on? 12 days? 2 days? _____		

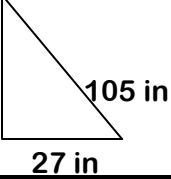
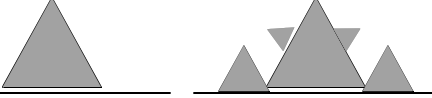
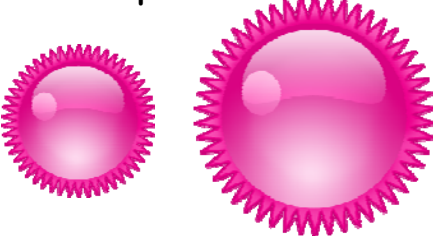
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.20.1

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
State whether the following statement is an overestimate or not: Peter was making dinner for his family and went to the store. He couldn't remember the recipe, but he thought it needed about 8 cups of carrots. _____		Find the perimeter and area of the triangle when $A = \frac{1}{2}bh$. _____	
			
Algebra & Functions		Geometry	
Extend the following pattern one more time: 		Are the following shapes congruent, similar, or neither? Draw a line of symmetry if possible.	
Data Analysis, Probability and Statistics Maribel lives in Portland, Oregon. She is wondering what the average temperature is for there. She went to the weather station and they gave her a list of temperatures: 12, 28, 75, 41, 86, 45, 92, 54, 78, and 110. Find the mean, median, and mode of these numbers: _____			

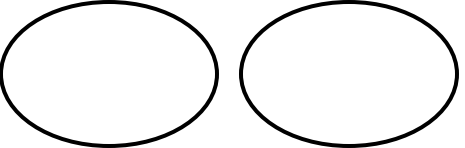
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.20.2

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Convert the following decimals into fractions: $0.5 =$ _____ $0.6 =$ _____ $0.83 =$ _____ $0.7 =$ _____		How many gallons is 24 pints? _____	
		How many minutes are in a single week? _____	
Algebra & Functions		Geometry	
As a train uses its massive engine to push it self forward, it accelerates as the time increases. Draw a graphical representation on a coordinate graph on the back of the paper. Only one quadrant is needed.		Are the following shapes congruent, similar, or neither? Draw a line of symmetry if possible.	
Data Analysis, Probability and Statistics Mr. Jones is reviewing his class' grades for the year and is wondering what the mean, median, and mode is. Here are some of the grades: 72, 87, 94, 102, 96, 89, 82, 84, 94, 79, and 99. Find the mean, median, and mode for Mr. Jones. _____			


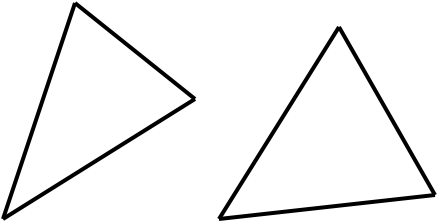
Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.20.3

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
Complete the Prime Factorization of the following numbers: 14, 72, and 120. _____ _____		Find the Perimeter and Area of the rectangle. _____ 156 ft  243 ft	
Algebra & Functions		Geometry	
Seth is starting a bank account. If he puts \$23 in this month, \$32 next month, \$41 the month after and continues in this pattern, how much will he have in his account in 14 months? _____		Are the following shapes congruent, similar, or neither? Draw a line of symmetry if possible. 	
Data Analysis, Probability and Statistics			
Different places can produce different amounts of energy from Wind because of the geography. Here are energy production amounts from around the U.S. in MW: 2.5, 1.2, 32.1, 10.4, 21.6, 15.8, 8.3, and 12.5. Find the mean, median, and mode. _____			


Name: _____

Date: _____

Temperature: _____

Daily Math Review, Grade 6.20.4

Sponsored by the Idaho National Lab (INL)

Number and Operation		Measurement	
State whether the following is an understatement or not: Beth lives 3 miles from school, but it could only take her about 5 minutes to walk to school. _____		Carla is looking at a map of the Western United States. What would be an appropriate scale for her to use? _____	
Algebra & Functions		Geometry	
Tell what the Distributive Property is and give an example: _____ _____		Are the following shapes congruent, similar, or neither? Draw a line of symmetry if possible. 	
Data Analysis, Probability and Statistics			
Hydroelectric dams use water flow to produce electricity. Water flow is measured in cubic feet per second or cfs. Here is a list of different cfs readings for a dam on the Snake River: 12,000, 14,000, 17,500, 10,000, 8,750, and 12,000. Find the mean, median, and mode. _____			