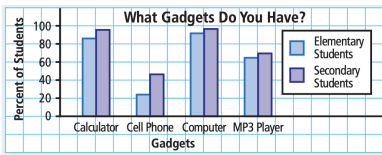
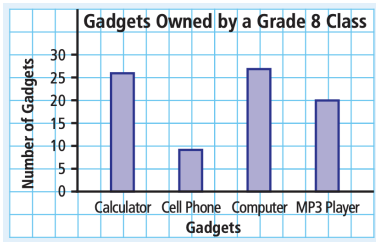
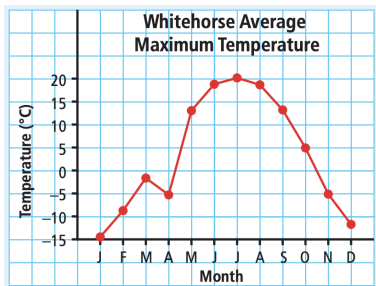
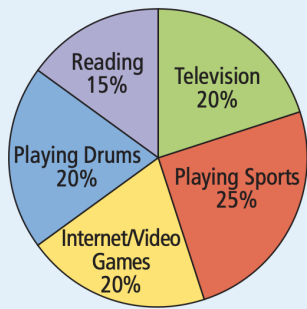


Chapter 1: Representing Data

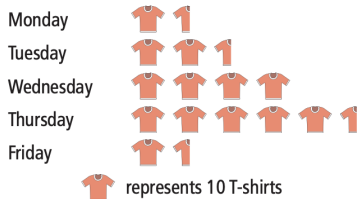
Types of Graphs and their Use



Andre's Weekly Activities (25 h)



T-Shirt Sales



Ways to Skew Data - What is distorted about the graphs below?

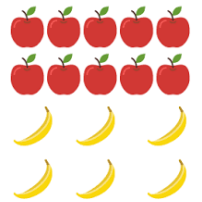
<p>Health Bar Sales</p> <p>Graph A</p> <p>Health Bar Sales</p> <p>Graph B</p>	
<p>Move over Bonzo, The Big Cheese is in town!</p> <p>The Big Cheese 56%</p> <p>Bonzo Burger 44%</p>	
<p>Quest Progress</p> <p>Players</p> <p>Scott</p> <p>Bryce</p> <p>Level Completed</p>	
<p>Fruit Sales in One Week</p> <p>Apples </p> <p>Peaches </p> <p>Cherries </p> <p> represents 20 kg</p> <p> represents 20 kg</p> <p> represents 20 kg</p>	

Chapter 2: Ratios, Rates and Proportional Reasoning

What are ratios? _____

Give an example: _____

How can ratios be expressed?



What are the different ways items can be compared?

1. _____

2. _____

What are Rates? _____

Give an example: _____

What are Unit Rates? _____

Give an example: _____

Ratios vs. Rates:

Ratios	Rates

What is a Proportion? _____

How do you create a proportion? _____

- _____

- _____

- _____

Chapter 3: Pythagorean Relationship

What does “square a number” mean? _____

What do you do to “square a number”? _____

Give an example: _____

When you are asked to find the square root, what are you actually determining? _____

What is the Pythagorean Theorem?

- where a and b are the sides _____

- and c is the _____

What does the Pythagorean expression mean?

What are the steps to using the Pythagorean Relationship to find the hypotenuse?

1. _____
2. _____
3. _____
4. _____
5. _____

What are the final two steps (that differ from above) when determining the leg length?

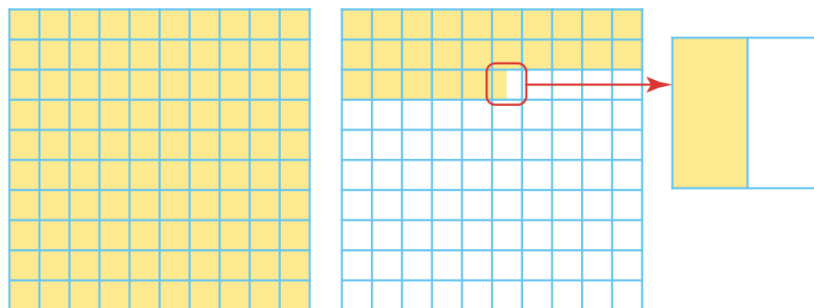
4. _____
5. _____

Chapter 4: Understanding Percents

How do you convert between the following? Give an example.

Decimal to Percent	Percent to Decimal
Percent to Fraction	Fraction to Percent
Fraction to Decimal	Decimal to Fraction

What would the following diagram represent as a percent?



How do you determine the percent of a number?

- _____

- _____

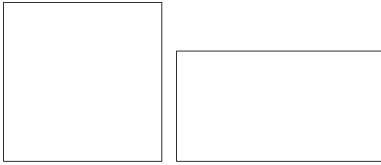
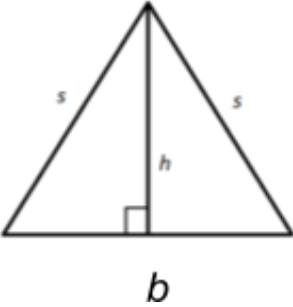
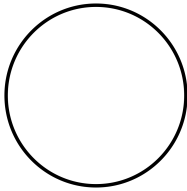
Chapter 5: Surface Area

What does surface area measure? _____


What units are surface area expressed in? _____

What is the formula for surface area? _____

Complete the following chart with the area and perimeter formulas.

Area Formulas	Shape	Perimeter Formulas
		
		
		(_____)

Complete the following surface area examples.


Chapter 7: Volume

What does volume measure? _____

What units is volume expressed in? _____

What is the formula for volume? _____

Complete the following surface area examples.

Chapter 6: Fraction Operations

Mixed Numbers to Improper Fractions

1. _____

2. _____

3. _____

Examples:

Improper Fractions to Mixed Numbers

1. _____

2. _____

3. _____

Examples:

Whole Numbers can be turned into fractions by _____

Adding and Subtracting Fractions

1. _____

2. _____

3. _____

4. _____

5. _____

Multiplying and Dividing Fractions

1. _____

2. _____

3. _____

4. _____

Examples:

Chapter 8: Integer Operations

Adding Integers

Same Signs:

Different Signs:

Subtracting Integers

Ki _____

S _____

S _____

Multiplying and Dividing Integers

Same Signs:

Different Signs:

Chapter 9: Solving Linear Relations

Set up a Table of Values for the following pattern.

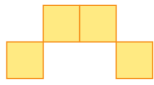


Figure 1

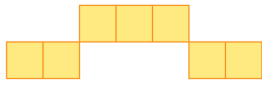


Figure 2

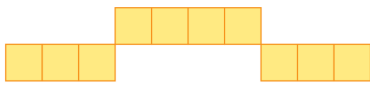


Figure 3

How do you create an equation from a Table of Values?

1. _____
2. _____
3. _____

What is the equation of the above pattern? _____

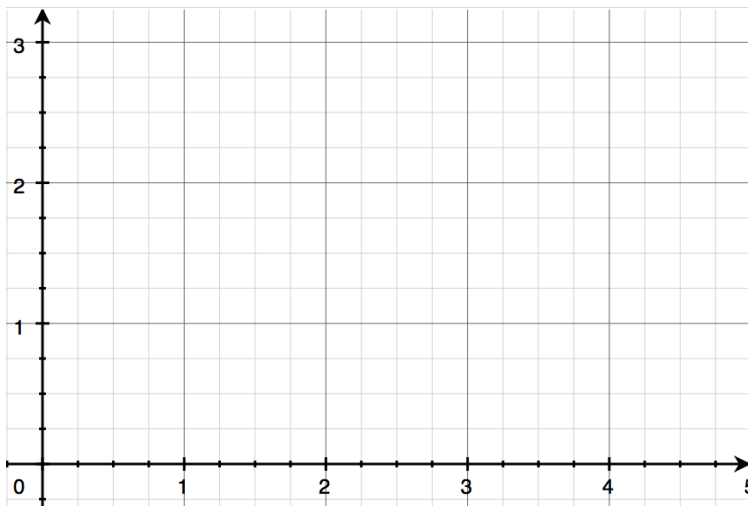
How to determine if the pattern in a Table of Values shows a linear relation.

1. _____
2. _____

Create a Table of Values from an Equation

$y = 5x + 4$

Label the x and y axis and graph the values.



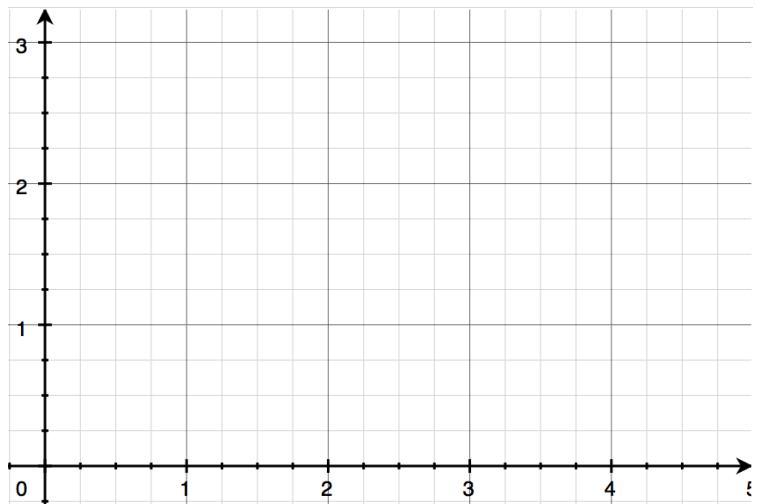
x	y
0	4
1	9
2	14
3	19
4	24

Graphing from an equation

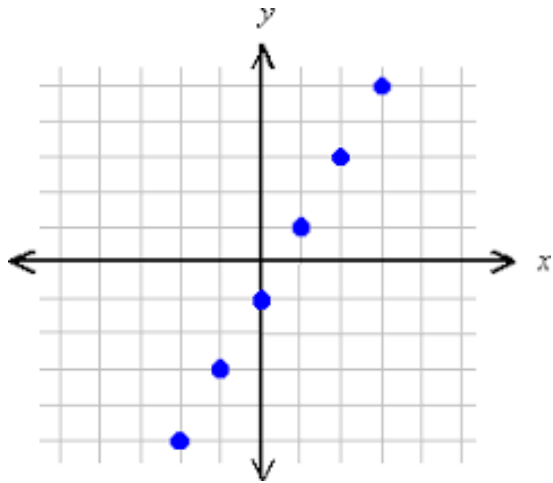
What does $b = 3f - 1$ mean?

Coefficient: _____

Constant: _____



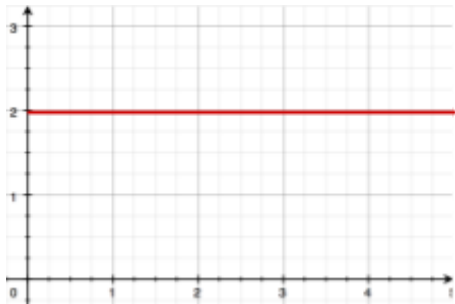
Creating a Table of Values from a Graph



What would the equation be? _____

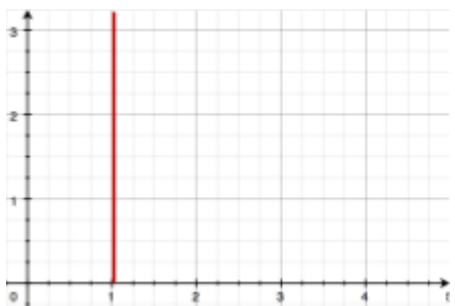
Horizontal Graphs

What would the equation be? _____



Vertical Graphs

What would the equation be? _____



Chapter 10: Linear Equations

What is an inverse function?

How do you solve equations?

What does this equation mean and how do you solve it?

$$5x-4=31$$

Means: _____

To Solve: _____

What are the steps to solving equations?

1. _____

- _____

- _____

2. _____

- _____

3. _____

- _____

4. _____

Practice Equations:

$$7x + 11 = 88$$

$$2x - 6 = -8$$

$$x/4 + 5 = -125$$

$$2(3x - 7) = 58$$

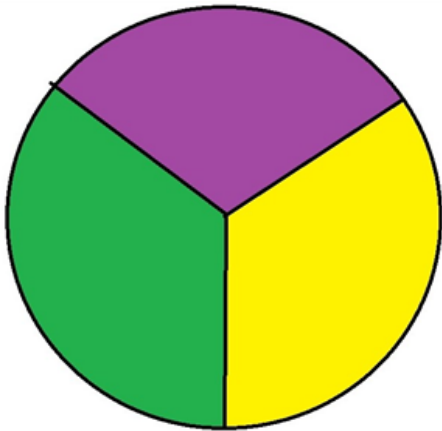
Chapter 11: Probability

What is Probability: _____

What is a Sample Space: _____

Create a Tree Diagram to determine the sample space of spinning the spinner two times.

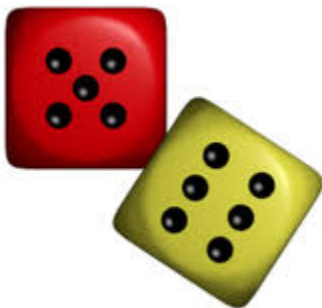
How big is the sample space: _____



Spin 1	Spin 2	Outcomes

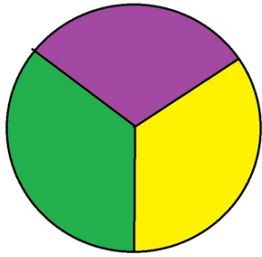
Create a Probability Table to determine the sample space of throwing the yellow and red dice

How big is the sample space: _____



	1	2	3	4	5	6
1						
2						
3						
4						
5						
6						

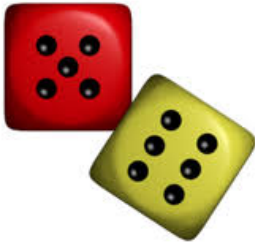
How do you determine the probability of spinning the same colour on both spins?



1. _____
2. _____
3. _____

Probability of spinning the same colour twice: _____

What is the probability of rolling the sum of 7?

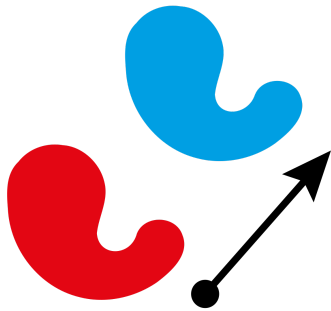


1. Number of total possible outcomes: _____
2. Number of desired outcomes: _____
3. Probability of rolling the sum of 7: _____

What is Theoretical Probability? _____

What is Experimental Probability? _____

Chapter 12: Tessellations



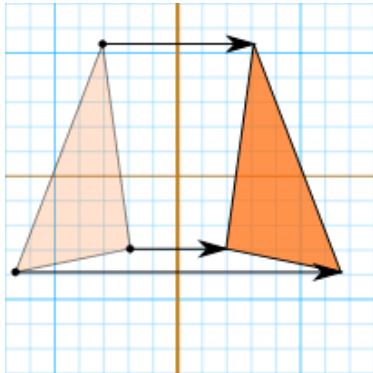
Translations are _____

Determining New Coordinates:

Generic Rule: _____

Example: Point (5, 9) translated 7 units up and 3 units left.

New Coordinates: _____



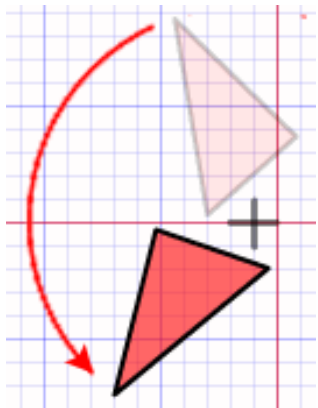
Reflections are _____

Determining New Coordinates:

Generic Rule: _____

Example: Point (-2, -3) reflected about the y-axis.

New Coordinates: _____



Rotations are _____

Determining New Coordinates:

Generic Rules:

90° CW/270° CCW	180° CW/CCW	270° CW/90° CCW
(x, y)	(x, y)	(x, y)

Examples:

90° CW/270° CCW	180° CW/CCW	270° CW/90° CCW
(4, 5)	(-7, 2)	(3, -8)
New Coordinates:	New Coordinates:	New Coordinates:

What does it mean if something tessellates? _____

What angles must the points of a polygon add to in order for it to be able to tessellate? _____