

Valentine's Day Review Packet

This packet contains various problems that review a variety of topics.

Some of the topics included are:

- Finding missing values in similar figures
 - Scale models
- Graphing equations using a table
 - Reflections
 - Translations
 - Rotations

There are also several word problems that review fractions and percents.

An answer key is included, and the format is Microsoft Word, so editing can be done.

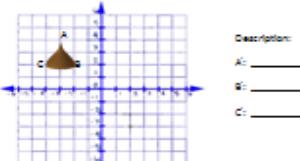
Valentine's Day Review Packet

Name: _____

Translations

For each problem below follow the instructions to translate the chocolate kiss. Then write the description for each translation, using the format $(x, y) \rightarrow (x + \Delta x, y + \Delta y)$ filling in the blanks correctly. Also write the coordinates of your image.

1. Translate 2 units right and 3 units down.



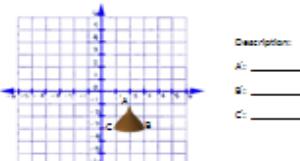
Description:

A1: _____

B1: _____

C1: _____

2. Translate 4 units left and 4 units up.



Description:

A2: _____

B2: _____

C2: _____

4 | Page

Valentine's Day Review Packet

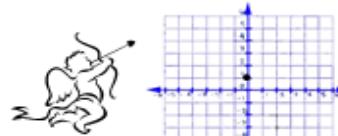
Name: _____

Graphs

Goliath shot one of his famous arrows through the graph below and it made a line. The arrow had the equation $y = 2x + 4$ written on it. Fill in the table, and then graph the equation on the coordinate plane below.

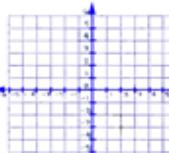
x	Plug x in and solve for y	y	Description
0	$y = 2(0) + 4$	4	(0, 4)
1			
2			
-1			
-2			

Hint: If you do not know how to graph the line fill in the table to help you graph the points! The first point has been done for you.



Now try to graph this arrow: $y = 2x + 4$

x	Plug x in and solve for y	y	Description
0	$y = 2(0) + 4$	4	(0, 4)
1			
2			
-1			
-2			



5 | Page

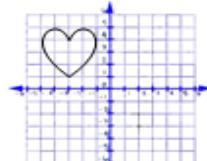
Valentine's Day Review Packet

Name: _____

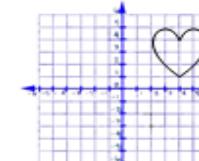
Rotations

Sarah is making mathematical valentines for her friends by rotating a heart on a coordinate plane. Help her out by working out the following problems. HINT: Use the top point of the heart, the bottom point, and the point in the middle.

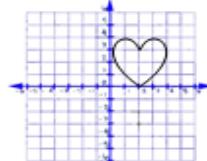
1. Rotate the heart 90° counterclockwise around the origin.



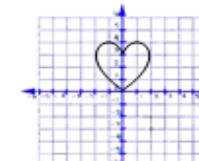
2. Rotate the heart 180° clockwise around the origin.



3. Rotate the heart 90° clockwise around its bottom vertex.



4. Rotate the heart 90° clockwise around its top vertex.



6 | Page