



Choice Board Spring Break 😊

Learning Activity Sheet - 8th Grade Math

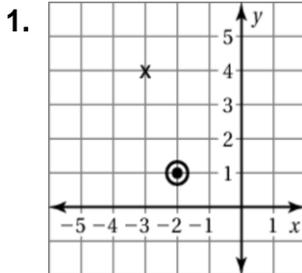
These assignments and activities are designed to help you stay connected to your learning. Choose to do as many as you see fit to maintain your learning and understanding of a few concepts and skills categorized by chapter from chapters 1-6.

Chapter 1.2 Solving Multi-Step equations	Chapter 2 – Transformations
<p>Solving Multi-Step equations: This video is a good reminder of the steps needed to solve these equations. You can also refer to Lesson 1.2 & 1.3 in your textbook. (Be patient, for some reason there's a 9 sec. delay before the video starts 😊)</p> <p>Video</p> <p>The worksheet is the second page of this document with the Answer Key on the fifth page of this document.</p> <p>😊</p>	<p>Using all the transformations we learned in order to accomplish the given task. Use the video to help review the action of each transformation.</p> <p>Video</p> <p>The worksheet is the third page of this document with the Answer Key on the fifth page of this document.</p> <p>😊</p>
Chapter 3 – Angles and Triangles	Chapter 4 – Graphing and Writing Linear Equations
<p>The following videos are from BigIdeasMath and should be a good reminder of Finding angles of polygons (exterior) as well as similar triangles.</p> <p>Click on: This Link And This Link</p> <p>Practice work: Page 132 #1-11 all in your textbook</p> <p>The Answer Key is on fifth page of this document.</p> <p>😊</p>	<p>Let's get out scissors and start with making our own:</p> <p>Flash Cards:</p> <p>An example is: Click on: This Link</p> <p>The worksheet is on the fourth page of this document with the Answer Key on the fifth page of this document.</p> <p>😊</p>
Chapter 5 – System of Linear equations - substitution	Chapter 6 - Functions
<p>Use the following video to review how to solve Systems of Linear Equations using the Substitution Method:</p> <p>Video</p> <p>Do the problems provided in the following link: Khan Academy</p> <p>The Answers will be provided on the link 😊</p>	<p>Use the following link to review how to match an input to a functions output (note the notation may look different... but it isn't!):</p> <p>Khan Academy</p> <p>Do the problems provided in the following link: (don't be fooled by the wide parenthesis!)</p> <p>Khan Academy</p> <p>The Answers will be provided in the link 😊</p>

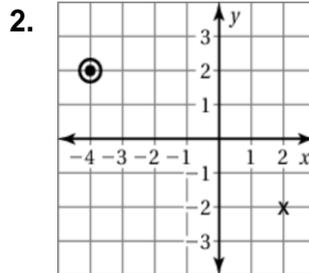
Help Save the Lost Animals

You are part of a lost animal search and rescue team. Because of the treacherous terrain, you often have to go way out of the way and do some back-tracking in order to locate animals. Not only that, but the navigation equipment keeps mixing up the signals and getting the directions out of order. Your job is to look at the map and put the steps in order.

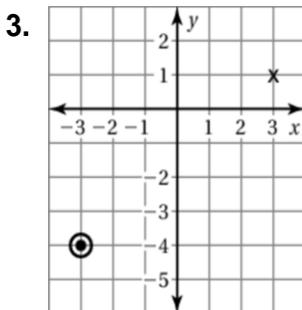
For each situation, the transformations will lead the rescue team to the animal, but they are not in the correct order. Find the correct order. Use each transformation exactly once. In each situation, you start out at the “x,” and the animal that you are trying to rescue is located at the bull’s eye.



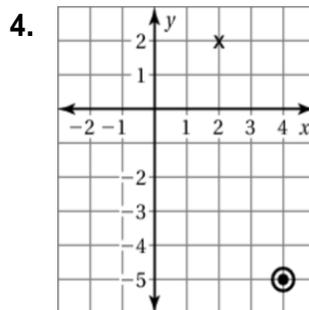
- Translate 2 units left and 2 units up.
- Rotate 90° clockwise about the origin.
- Reflect in the x -axis.
- Rotate 180° about the origin.



- Translate 1 unit right.
- Rotate 90° counterclockwise about the origin.
- Rotate 180° about the origin.
- Translate 3 units down.
- Reflect in the y -axis.



- Reflect in the x -axis.
- Translate 3 units down.
- Reflect in the y -axis.
- Rotate 90° clockwise about the origin.
- Rotate 90° counterclockwise about the origin.



- Rotate 90° counterclockwise about the origin.
- Rotate 180° about the origin.
- Translate 3 units left.
- Translate 2 units up.
- Reflect in the x -axis.
- Reflect in the y -axis.

Matching Equations and Graphs

Copy the equations and graphs onto index cards. Mix the cards up and lay them face down. With a friend, take turns turning over pairs of cards. If you find a matching graph and equation, remove the pair and take another turn. If the pair doesn't match, turn both cards face down again. Continue until all pairs are removed. The player with the most pairs wins.

$$y = \frac{1}{3}x + 2$$

$$y = 2x - 2$$

$$y = -x + 3$$

$$y = 4x$$

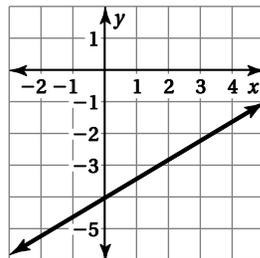
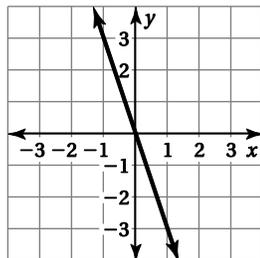
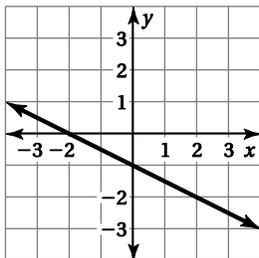
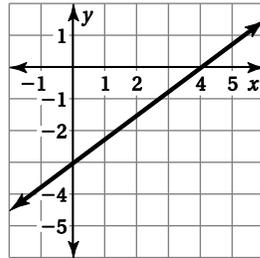
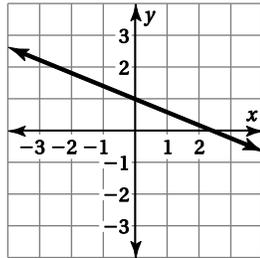
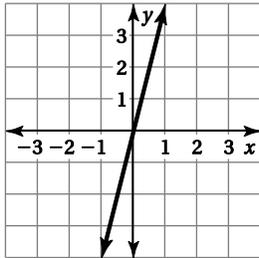
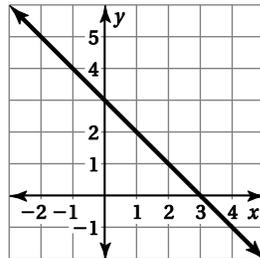
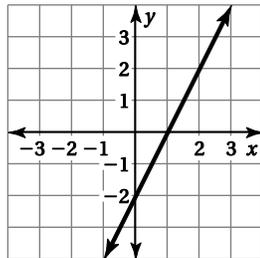
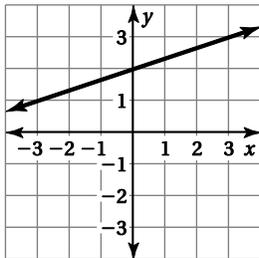
$$y = -\frac{2}{5}x + 1$$

$$y = \frac{3}{4}x - 3$$

$$y = -\frac{1}{2}x - 1$$

$$y = -3x$$

$$y = \frac{3}{5}x - 4$$



Where can you buy a ruler that is three feet long?

1. $d = 4/3$ 2. $e = 4$ 3. $t = -1.5$ 4. $a = -1$ 5. $a = 1/3$ 6. $y = 0$ 7. $r = 1$
8. $a = -5$ 9. $s = 2$ 10. $a = 2.25$ 11. $l = 3$ Answer: at a yard sale

Help Save The Lost Animals

1. Sample answer: Rotate 90 degrees clockwise about the origin. Reflect in the x-axis. Translate 2 units left and 2 units up. Rotate 180 degrees about the origin.
2. Translate 3 units down. Rotate 180 degrees about the origin. Reflect in the y-axis. Rotate 90 degrees counterclockwise about the origin. Translate 1 unit right.
3. Sample answer: Rotate 90 degrees clockwise about the origin. Reflect in the y-axis. Reflect in the x-axis. Rotate 90 degrees counterclockwise about the origin. Translate 3 units down.
4. Sample answer: Translate 2 units up. Reflect in the x-axis. Rotate 180 degrees about the origin. Translate 3 units left. Rotate 90 degrees counterclockwise about the origin. Reflect in the y-axis.

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1. 1440°
2. 1980°
3. $58^\circ; 122^\circ; 134^\circ; 46^\circ$
4. $126^\circ; 130^\circ; 140^\circ; 120^\circ; 115^\circ; 154^\circ; 115^\circ$
5. $280^\circ; 40^\circ; 110^\circ; 70^\circ; 40^\circ$
6. $80^\circ; 100^\circ; 65^\circ; 115^\circ$
7. $60^\circ; 120^\circ; 90^\circ; 90^\circ$
8. yes; The triangles have the same angle measures, 95° , 46° , and 39° .
9. no; The triangles do not have the same angle measures.
10. 25 sides
11. a. Angles W and Z are right angles, so they are congruent. Angles WXV and ZXY are vertical angles, so they are congruent. Because two angles in $\triangle VWX$ are congruent to two angles in $\triangle YZX$, the third angles are also congruent, and the triangles are similar. b. 50 ft

Matching Equations and Graphs

The equations match up with the graphs in the corresponding position! (meaning the top right equation matches with the top right graph) 😊