

Grade 6 Mathematics

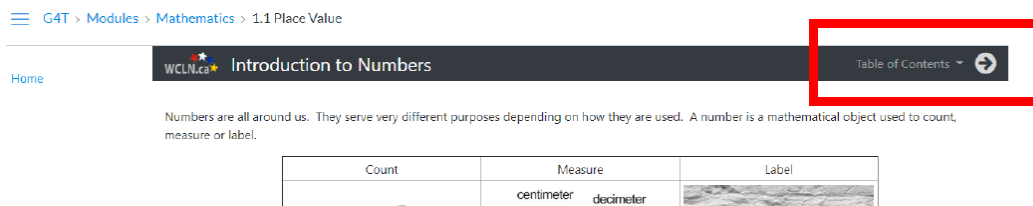
Week of March 1 – March 5

Lesson 6.1: Transformations

Lesson Materials

- Lessons for Section [6.1 Transformations](#)
- Learning Guide (This PDF)

Use the link above to open the lessons for this section. Remember: on the lesson page, use the arrow next to the “Table of Contents” at the **top of the page** to move through the lessons. You can also click on the Table of Contents to open the menu so you can jump to a specific lesson page.



Work through the online lessons for this section. You can work at your own pace or follow the suggested schedule below. Complete the activities in your Learning Guide as you work through the lessons. You can print the Learning Guide, or, copy out the questions on a separate piece of paper. Be sure to try the games and practice quizzes as you make your way through the online lesson book.

Suggested Lesson Schedule

<p>Monday</p> <ul style="list-style-type: none">• Translations• Check Your Understanding• LG 6.1 p. 1, #1 <p>Tuesday</p> <ul style="list-style-type: none">• Rotation• Check Your Understanding• LG p. 2, #2• <p>Wednesday</p> <ul style="list-style-type: none">• Reflection• Check Your Understanding• LG p. 2-3, #3	<p>Thursday</p> <ul style="list-style-type: none">• Dilation• Examples• LG p. 3, #4 <p>Friday</p> <ul style="list-style-type: none">• Summary• Combinations p. 4-5, #5
--	---

Name: _____

UNIT 6 LEARNING GUIDE – GEOMETRY

INSTRUCTIONS:

Using a pencil, complete the following questions as you work through the related lessons. Show ALL of your work as is explained in the lessons. Do your best and always ask questions if there is anything that you don't understand.

6.1 TRANSFORMATIONS

1. Perform the following translations:

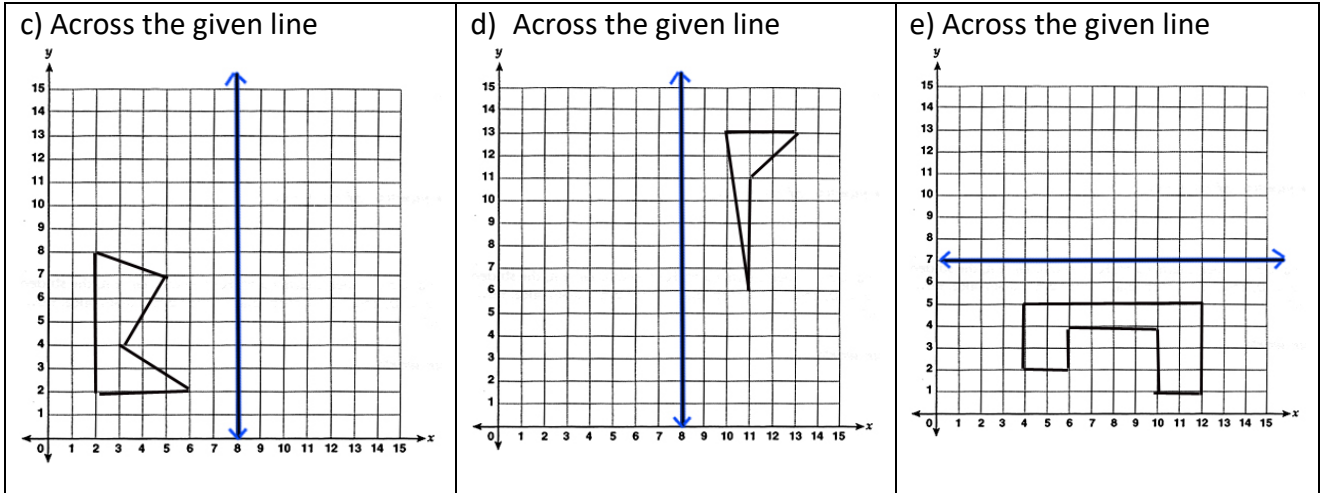
<p>Example: 1 left and 4 down</p>	<p>a) 6 left and 2 up</p>	<p>b) 6 left and 4 down</p>
<p>c) 2 right and 6 down</p>	<p>d) 2 left and 2 up</p>	<p>e) 4 left and 5 up</p>

2. Perform the following rotations about the given point.

<p>Example: 180°</p>	<p>a) 90° clockwise</p>	<p>b) 90° counterclockwise</p>
<p>c) 180°</p>	<p>d) 90° clockwise</p>	<p>e) 90° counterclockwise</p>

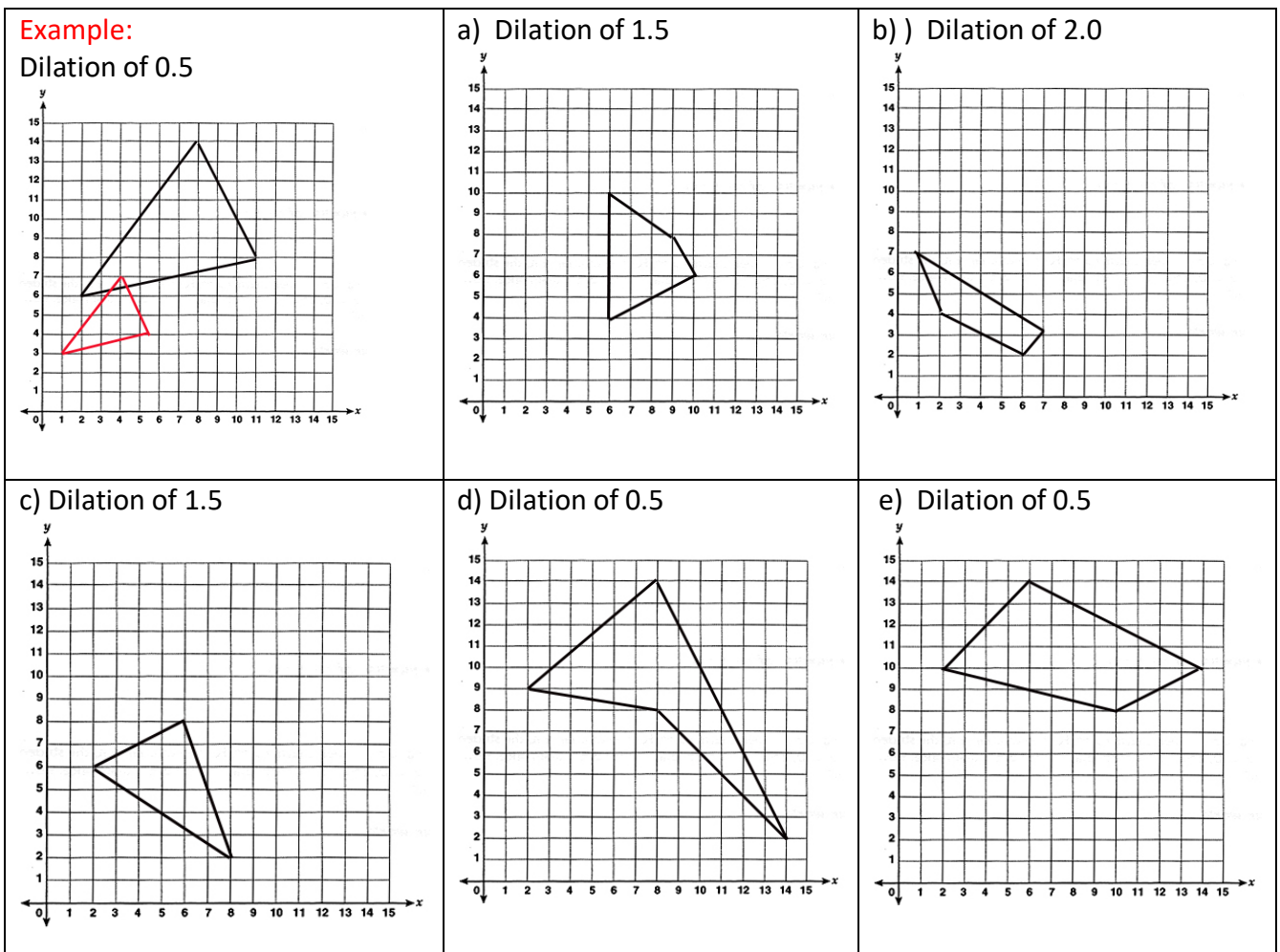
3. Perform the following reflections.

<p>Example: Across the given line</p>	<p>a) Across the given line</p>	<p>b) Across the given line</p>
--	---------------------------------	---------------------------------



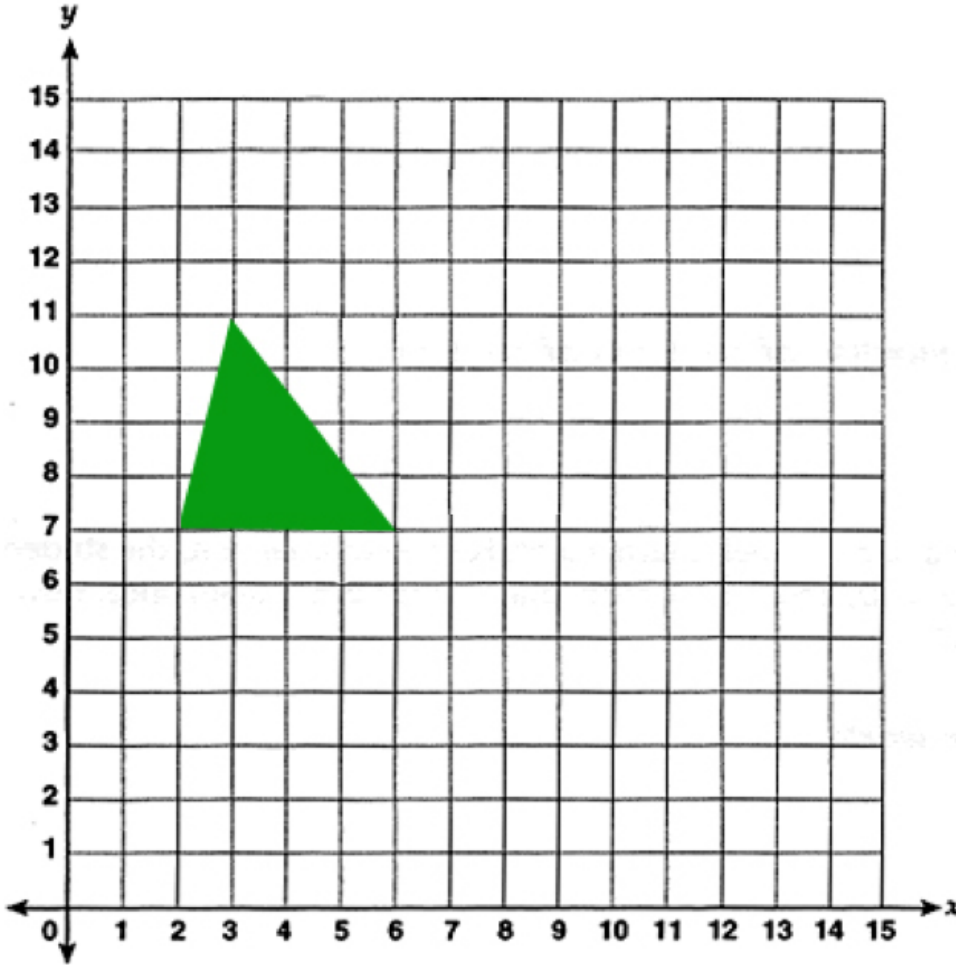
Transformation questions adapted from <http://www.math-aids.com/Geometry/Transformations>

4. Perform the following dilations using the scale factor given.



5. Perform the following combination of transformations. Show each result.

a) a translation 6 units to the right and down 5, then a translation 2 to the right and up 9



b) a translation 6 units up then a reflection in the given line.

