

Polygons & Angle Measure/Transformations

Long-Term Memory Review – Grade 7

Review 1

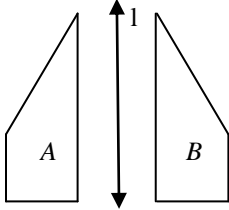
Use the following words to fill in the blank to make true sentences.

translation

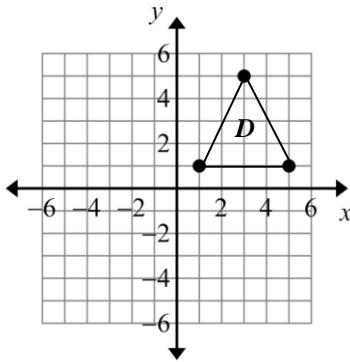
rotation

reflection

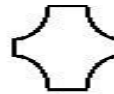
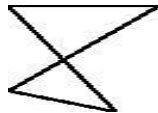
1. A _____ is a transformation that **slides** a figure a given distance in a given direction.
2. A _____ is a transformation that **flips** a figure the opposite side of a line.
3. A _____ is a transformation in which a figure is **turned** about a point.
4. Name the transformation needed to transform Figure *A* into Figure *B*, using one movement.



5. Figure *D* is to be translated 6 units to the left. Draw the new figure, *D'*, on the graph provided.



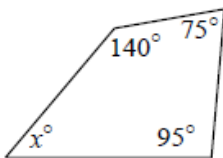
6. For each of the shapes below state whether they meet the definition of a polygon. Explain your reasoning.



7. Match the name of each of the polygons below to the number of sides it has.

A. Quadrilateral	B. Nonagon	C. Hexagon	D. Triangle
E. Octagon	F. Decagon	G. Pentagon	H. Heptagon
_____ 3 sides	_____ 4 sides	_____ 5 sides	_____ 6 sides
_____ 7 sides	_____ 8 sides	_____ 9 sides	_____ 10 sides

8. The sum of the measures of the interior angles of any triangle equals 180° . What is the sum of the measures of the interior angles in any quadrilateral?
9. Determine the measure of the missing angle in the quadrilateral.



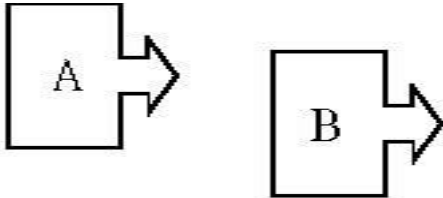
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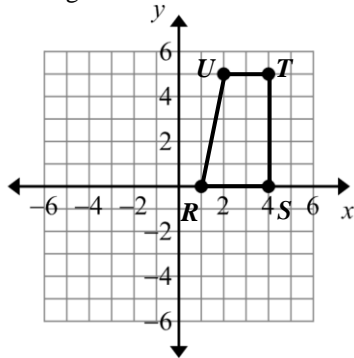
Review 2

1. Name the three types of transformations and explain the movement associated with each one.

2. Name the transformation needed to transform Figure A into Figure B, using one movement.



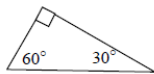
3. Figure A is to be reflected across the y -axis. Draw the new figure on the graph. Label the new figure A' .

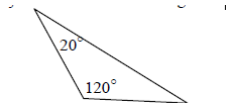


4. Name the polygon having the given number of sides.

- a) 6 sides b) 3 sides c) 5 sides d) 7 sides e) 4 sides f) 8 sides

5. Classify each of these triangles by the measure of their angles and sides.





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Review 3

1. Use the words below that best complete the paragraph. HINT: Words can be used more than once.

Opposite

Addition

Multiplication

Reciprocal

ALL subtraction problems can be turned into _____ problems by simply adding the _____ number.
Furthermore, all division problems can be turned into _____ problems by multiplying by the _____ .

2. Complete the rules for addition and multiplication in the tables below.

$(+) + (+) = \underline{\hspace{2cm}}$	$(+) \times (+) = \underline{\hspace{2cm}}$
$(-) + (-) = \underline{\hspace{2cm}}$	$(-) \times (-) = \underline{\hspace{2cm}}$
$(+) + (-) = \underline{\hspace{2cm}}$	$(+) \times (-) = \underline{\hspace{2cm}}$
$(-) + (+) = \underline{\hspace{2cm}}$	$(-) \times (+) = \underline{\hspace{2cm}}$

3. Find the sum, product, difference, or quotient of the following:

a) $-10 + (-7)$

b) $(-20) \div 5$

c) $170 - (-20)$

d) $-8 \times (-2)$

4. On Monday, the Las Vegas dog pound had 36 animals. On Tuesday, 5 animals were placed in homes. On Wednesday, 2 animals came to the dog pound. How many animals does the dog pound have at the start of the day on Thursday?
5. According to the US Geological Survey, the elevation of the highest point in the US is Mt. McKinley at 20,320 feet. The lowest point in the US is Death Valley at 282 feet below sea level. What is the change in elevation from Mr. McKinley to Death Valley?

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Review 4

1. In math, two common math operations that exist are _____ and _____ .
2. It can be said that ALL subtraction problems can be turned into _____ problems by simply adding the _____ number. Furthermore, all division problems can be turned into _____ problems by multiplying by the _____ .
3. Complete the rules for addition and multiplication in the tables below.

$(+) + (+) = \underline{\quad}$	$(+) \times (+) = \underline{\quad}$
$(-) + (-) = \underline{\quad}$	$(-) \times (-) = \underline{\quad}$
$(+) + (-) = \underline{\quad}$	$(+) \times (-) = \underline{\quad}$
$(-) + (+) = \underline{\quad}$	$(-) \times (+) = \underline{\quad}$

4. Find the sum, product, difference, or quotient of the following:

a) $-15 + (-7)$

b) $-20 - (-5)$

c) 12×-7

d) $54 \div -3$

5. On Monday, the Las Vegas dog pound had 36 animals. On Tuesday, 5 animals were placed in homes. On Wednesday, 2 animals came to the dog pound. On Thursday, 7 animals came to the dog pound and 4 animals were placed in homes. How many animals does the dog pound have at the start of the day on Friday?

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Quiz

1. Use the words below that best complete the paragraph. HINT: Words can be used more than once.

Opposite Addition Multiplication Reciprocal

In math, two common math operations that exist are _____ and _____.

It can be said that ALL subtraction problems can be turned into _____ problems by simply adding the _____ number. Furthermore, all division problems can be turned into _____ problems by multiplying by the _____ .

2. Complete the rules for addition and multiplication in the tables below.

$(+) + (+) = \underline{\quad}$	$(+) \times (+) = \underline{\quad}$
$(-) + (-) = \underline{\quad}$	$(-) \times (-) = \underline{\quad}$
$(+) + (-) = \underline{\quad}$	$(+) \times (-) = \underline{\quad}$
$(-) + (+) = \underline{\quad}$	$(-) \times (+) = \underline{\quad}$

3. Find the sum, product, difference, or quotient of the following:

b) $-14+7$

b) $(-20)\times 5$

c) $17-25$

d) $-8\div -2$

4. On Monday, the Las Vegas dog pound had 36 animals. On Tuesday, 6 animals were placed in homes. On Wednesday, 2 animals came to the dog pound. On Thursday, 7 animals came to the dog pound and 4 animals were placed in homes. How many animals does the dog pound have at the start of the day on Friday?
5. According to the US Geological Survey, the elevation of Las Vegas, NV is 2001 feet. The elevation of the Colorado River as it flows through Nevada is 479 feet. As water flows from the Las Vegas valley to the Colorado River, what is its change in elevation?

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Answers

Review 1- Answers

- 1) addition; multiplication
- 2) Row 1: +, -, sign of larger absolute value, sign of larger absolute value
Row 2: +, +, -, -
- 3) a) -3 b) -7 c) 35 d) 4
- 4) A
- 5) $+6^\circ$

Review 2- Answers

- 1) addition; subtraction; multiplication; division (possible answers)
- 2) Row 1: +, -, sign of larger absolute value, sign of larger absolute value
Row 2: +, +, -, -
- 3) a) 16 b) -300 c) -15 d) 2
- 4) D
- 5) -3°

Review 3- Answers

- 1) addition; opposite; multiplication; reciprocal
- 2) Row 1: +, -, sign of larger absolute value, sign of larger absolute value
Row 2: +, +, -, -
- 3) a) -17 b) -4 c) 190 d) 16
- 4) 33 animals
- 5) +20,602 ft

Review 4- Answers

- 1) addition; subtraction; multiplication; division (possible answers)
- 2) addition; opposite; multiplication; reciprocal
- 3) Row 1: +, -, sign of larger absolute value, sign of larger absolute value
Row 2: +, +, -, -
- 4) a) -22 b) -15 c) -84 d) -18
- 5) 36 animals

Quiz - Answers

- 1) addition; multiplication; addition; opposite; multiplication; reciprocal
- 2) Row 1: +, -, sign of larger absolute value, sign of larger absolute value
Row 2: +, +, -, -
- 3) a) -7 b) -100 c) -8 d) 4
- 4) 35 animals
- 5) -1522 ft