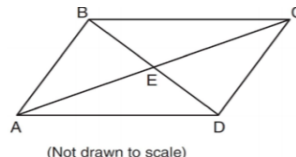
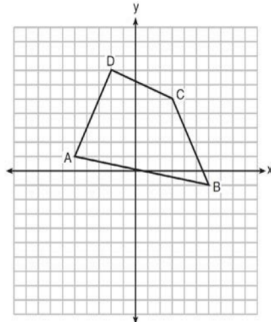
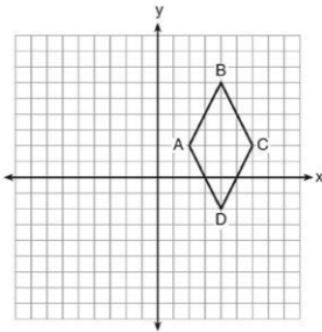


# Answer Key - Math 1 Weekly Spiral Review Week - 4

Monday	Tuesday	Wednesday	Thursday
Write an equation of the line that passes through the point (4, 7) and is parallel to the line $y = 5x - 3$ . <b><math>y = 5x - 13</math></b>	The interior angles of a quadrilateral must total _____. <b><math>360^\circ</math></b>	Find the distance between the pair of points. (5, 1) and (5, -6) <b>7</b> (6, 2) and (0, -6) <b>10</b>	Find the midpoint given endpoints: (8, -9) and (0, 5) <b>(4, -2)</b> (0, 4) and (-4, -12) <b>(-2, -4)</b>
Find the equation of a line that is perpendicular to $4y + 2x = 12$ and goes through the point (8, -1). <b><math>y = -\frac{1}{2}x + 3</math></b> <b><math>y = 2x - 17</math></b>	Simplify using exponent rules: $\frac{2x^4y^{-4}z^{-3}}{3x^2y^{-3}z^4}$ <b><math>\frac{2x^2}{3yz^7}</math></b>	Find the endpoint, given the midpoint and the other endpoint. M(-5, 1) and E(-12, 3) <b>(2, -1)</b>	A clock rotates at a constant rate to keep time. If it rotates $45^\circ$ every 2 hours, how many degrees will it rotate in 24 hours? <b><math>540^\circ</math></b>
Simplify using exponent rules: $(3x^3 \cdot y^5 \cdot 2z^4)^2$ <b><math>36x^6y^{10}z^8</math></b> $-5x^2(3xy^0z)^4$ <b><math>-405x^6z^4</math></b>	Your Caesar salad recipe uses 4 pounds of romaine lettuce for 15 servings. How much romaine lettuce do you need to serve 20 people? <b><math>5\frac{1}{3}</math> pounds</b>	The coordinates of the vertices of $\triangle RST$ are R(-2, -3), S(8, 2) and T(4, 5). What type of triangle is $\triangle RST$ ? <b>RIGHT TRIANGLE</b>	Find the slope of the line that passes through the points (1, 3) and (3, -2). <b><math>-\frac{5}{2}</math></b>
Factor each expression: $20a^3b + 15b^4$ <b><math>5b(4a^3 + 3b^3)</math></b> $4ab + 10a$ <b><math>2a(2b + 5a)</math></b>	Find the distance between each pair of points: (-6, -10) and (-2, -10) <b>4</b> (5, 9) and (-7, -7) <b>20</b>	Write the equation of a line that passes through (6, 3) and has a slope of 2. <b><math>y = 2x - 9</math></b>	Solve using a proportion: $\frac{b+27}{4} = \frac{b-17}{5}$ <b><math>b = -203</math></b> $\frac{2}{9} = \frac{v+26}{v-6}$ <b><math>v = -35.14</math></b>
Translate into an equation and solve: <i>Two more than four times a number is the number less seven. What is the number?</i> <b><math>4n + 2 = n - 7</math> ; <math>n = -3</math></b>	Solve using percent proportion: 3 is what percent of 4? <b>75%</b> 12 is what percent of 20? <b>60%</b>	The combined weight of 2 objects is 48 pounds. If the heavier object weighs 6 pounds more than twice the weight of the lighter object, what is the weight of the heavier object? <b>34 pounds</b>	Solve using percent proportion: What is 150% of 18? <b>27</b> What is 25% of 192? <b>48</b>
Three angles of a triangle are in the ratio of 3 : 5 : 7. What is the measure of each angle? <b>lengths of the sides are 36, 60, 84</b>	Find the midpoint of the line segment with the given endpoints: (8, -3) and (2, 3) <b>(5, 0)</b> (9, -4) and (-5, -10) <b>(2, -7)</b>	Use the diagram. Parallelogram $ABCD$ has vertices $A(1,3)$ , $B(5, 7)$ , $C(10,7)$ , and $D(6,3)$ . Diagonals $AC$ and $BD$ intersect at E. What are the coordinates of point E? <b><math>E(5.5, 5)</math></b> 	
One quart of grape juice costs eighty cents. The price of grape juice is proportional to the number of quarts you buy. How much grape juice can you buy for \$10.00? <b>12.5 quarts</b>	The point (3, -2) is rotated $90^\circ$ about the origin and then dilated by a scale factor of 4. What are the coordinates of the resulting image? <b>(8, 12)</b>	In the diagram below, quadrilateral $ABCD$ has vertices A(-5, 1), B(6, -1), C(3, 5) and D(-2, 7). <b>(-1,3)</b> 	Quadrilateral $ABCD$ is graphed below. What quadrilateral best classifies $ABCD$ ? <b>rhombus</b> 
The length of a rectangle is 8 inches longer than the width. If the ratio of the length to perimeter is 5:16, what is the area of the rectangle? <b>area = 240</b>	Which quadrilateral has diagonals that always bisect its angles and also bisect each other? <b>1) rhombus</b> <b>2) rectangle</b> <b>3) parallelogram</b> <b>4) isosceles trapezoid</b>		