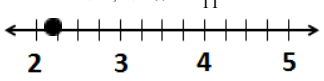
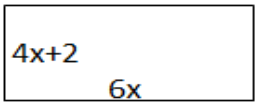
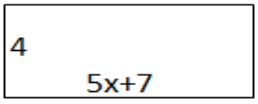
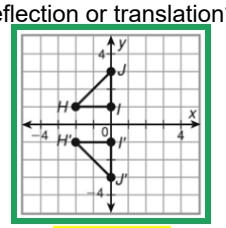
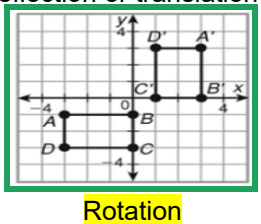
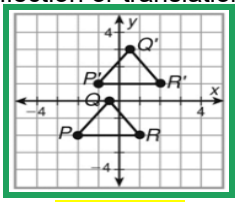
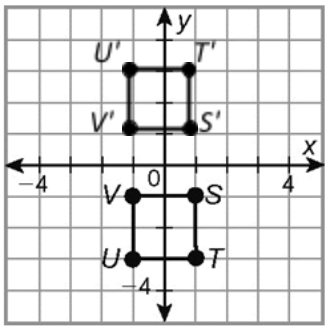
Answer Key – Math 1 Weekly Spiral Review Week - 3

Monday	Tuesday	Wednesday	Thursday
Find the midpoint of the line segment with the given endpoints. (-4, 4) and (-2, 2) **(-3, 3)** (-1,1) and (5, -5) **(2, -2)**	Find the other endpoint of the line segment with the given endpoint and midpoint. Endpoint (2,5) midpoint (5,1) **(8, -3)**	Find the distance between each pair of points. Round to the nearest tenth. (-2, 3), (-7,-7) **11.2** (2, -9), (-1, 4) **13.3**	Solve each proportion. $\frac{p+10}{p-7} = \frac{8}{9}$ **p = -146** $\frac{n-5}{n+8} = \frac{2}{7}$ **n = 10.2**
Find the slope from the pair of points. (-5, -4) and (1, -1) $\frac{1}{2}$ (-5, -5) and (5, 0) $\frac{1}{2}$	Write the slope intercept form of the equation of the line described. Through (-2,2) and parallel to y = -$\frac{7}{2}$x + 2 **y = -** $\frac{7}{2}$ **x - 5**	A suitcase measures 24 inches long and 18 inches high. What is the diagonal length of the suitcase to the nearest tenth of a foot? **30.0 = c**	Write the slope intercept form of the equation of the line described. Through (-4,0) and perpendicular to y = -2x **y =** $\frac{1}{2}$ **x + 2**
Solve and plot your answer on the number line below: $x = \frac{27}{11}$  	Solve the equation for the indicated variable: u = x – k, for x **x = u + k** am = n + p, for a a = $\frac{n+p}{m}$	In a box of eight donuts, two have pink sprinkles. Determine what percent of the donuts in the box have pink sprinkles. **25% of the donuts in the box have pink sprinkles**	Solve the equation for the indicated variable: -3x + 2c = -3, for x **x =** $\frac{2c+3}{3}$ z = 9a – 9 – 3b, for a **a =** $\frac{z+9+3b}{9}$
Write and solve an equation based off the verbal phrase. The sum of x and 9 is divided by 2. That quantity is equal to 3x. $\frac{x+9}{2} = 3x$ $x = \frac{9}{5}$	Write and solve an equation based off the verbal phrase. The difference between 4 and the product 6x is 40. $4 - 6x = 40$ $x = -6$	The perimeter of the shape below is 84 feet. What is the area? 432 ft²  	If the area of the figure below is 128 inches². What is the perimeter? 72 inches 
Solve each proportion: $\frac{x}{5} = \frac{x+2}{9}$ **x = 2.5** $\frac{9}{n+2} = \frac{3}{9}$ **n = 25**	Use a proportion to solve. 18 is 40% of what number? **18 is 40% of 45**	A basketball team won 75% of 120 games in a season. How many games is that? Write and solve a proportion. **90 games won**	Use a proportion to solve. 18 is 75% of what number? **18 is 75% of 24**
Simplify. Your answer should contain only positive exponents. $\frac{2x^2y^4 \cdot 4x^2y^4 \cdot 3x}{3x^{-3}y^2}$ **$8x^8y^6$**	Find the coordinates of the vertices of the figure after the given transformation. Rotation 180° about the origin. U(-2, 1) Z(-3, 5) B(1, 5). **U'(2, -1), Z'(3, -5), B'(-1,-5)**	The formula for the circumference or a circle is $C = 2\pi r$. Solve for π.  $\pi = \frac{C}{2r}$	Simplify. Your answer should contain only positive exponents. $\frac{3x^2y^{-3}}{12x^6y^3}$ $\frac{1}{4x^4y^6}$
Is the following a rotation, reflection or translation?  Reflection	Is the following a rotation, reflection or translation?  Rotation	Is the following a rotation, reflection or translation?  Translation	Reflect the figure across the x-axis. 
A segment with endpoints (5,8) and (–6,8) is rotated around the origin. How long will the new segment be? 11	Δ *XYZ* at *X*(–6, 1), Y(4, 0), *Z*(1, 3) is translated left 9 and up 12. What are the new coordinates of the triangle? *X'*(-15,13) *Y'*(-5,12) *Z'*(-8,15)	Fill in the blank: A <u>reflection</u> (or flip) is a transformation over a line A <u>rotation</u> is a transformation about (or around) a point	