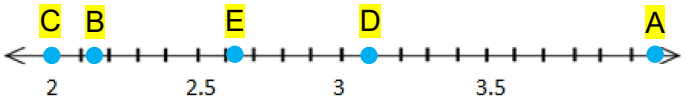
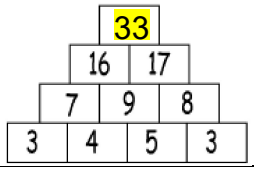
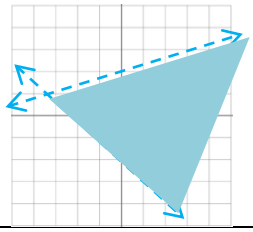
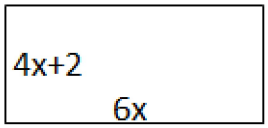
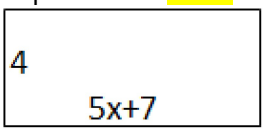
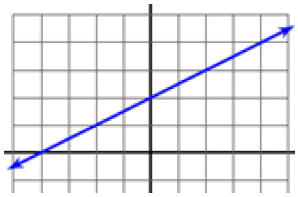
Answer Key – Weekly Math Review – Q1:2

Monday	Tuesday	Wednesday	Thursday
Place the following numbers on the number line. $(A) 4.1, \quad (B) 1\frac{5}{4}, \quad (C) \sqrt{4}, \quad (D) 3.\overline{11}, \quad (E) \sqrt{7}$  		What number goes on top?  	Which is the more precise measurement? a. 18 inches b. 18.55 inches c. 17.5 inches d. 17.775 inches
Solve the system by the substitution method. $2x - 5y = -6$ $y = 3x - 4$ $(2, 2)$	Solve the system by the elimination method. $-10x + 7y = -23$ $-5x + 2y = -13$ $(3, 1)$	Shade the intersection for the following system of inequalities: $y > -\frac{4}{3}x - 3$ $y < \frac{1}{3}x + 2$	
Solve the following: $7(x + 4) = 8x + 31$ $x = -3$	Solve the following: $-(6x + 6) + 2 = -6x - 3$ *no solution*	Factor Completely: $p^2 - 7p - 30 =$ $(p - 10)(p + 3)$ $k^2 + 17k + 70 =$ $(k + 7)(k + 10)$	Factor Completely: $x^2 - x - 30 =$ $(x - 6)(x + 5)$ $2m^2 - 2m - 60 =$ $2(m - 6)(m + 5)$
Factor Completely: $v^2 - 2v - 48 =$ $(v - 8)(v + 6)$ $v^2 - 3v - 10 =$ $(v - 5)(v + 2)$	Factor Completely: $n^2 + 7n - 18 =$ $(n + 6)(n - 2)$ $2x^2 + 10x + 6 =$ $2(x^2 + 5x + 3)$	The perimeter of the shape below is 84 feet. What is the area? 432 ft²  	If the of the figure below is 128 inches². What is the perimeter? 72 in. 
Determine the slope and y-intercept of the graph to the right. Then write the equation. $m = \frac{1}{2}$ $b = 2$ $y = \frac{1}{2}x + 2$		Circle the function(s) whose graph is a straight line. $2x + y = 7$ $y = x^2$ $y = \frac{1}{x}$ $y = 3x + 8$	Find the slope between the following points: $(-6, 0), \text{and } (1, -14)$ $m = -2$
Simplify the radicals below: $\sqrt{-75} = 5i\sqrt{3}$ $\sqrt{-144} = 12i$ $\sqrt{-1}^6 = -1$	Simplify each expression: $i^{17} = i$ $i^3 = -i$ $i^{120} = 1$ $i^{252} = 1$	Identify the conjugate: $10 - 7i$ $10 + 7i$ $1 + 8i$ $1 - 8i$	Simplify the radicals below: $\sqrt{36} = 6$ $\sqrt{-25} = 5i$ $\sqrt{-1}^{22} = -1$
Simplify the following: $(5 + 6i) + (-8 - 5i)$ $-3 + i$	Multiply the following: $3i(4 - 8i)$ $24 + 12i$	Simplify the following: $(4) + (5 - 2i) - (6 + 10i)$ $3 - 12i$	Multiply the following: $(5 + 2i)^2$ $21 + 20i$
Simplify the following: $(7i) - (12 - 9i)$ $-12 + 16i$	Simplify the following: $\frac{3}{4i} = -\frac{3i}{4}$ $\frac{15}{2-3i} = \frac{30+45i}{13}$	Simplify the following: $(3i) + (1 - 9i) + (16 - i)$ $17 - 7i$	Simplify the following: $\frac{6i}{5i} = \frac{6}{5}$ $\frac{5}{8-5i} = \frac{40+25i}{89}$

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