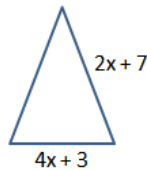


Answer Key – Math 1 Weekly Spiral Review Week - 1

Monday	Tuesday	Wednesday	Thursday																								
<p>Jim bought a \$576 TV with the cash in his wallet. He now has \$137 in his wallet. Write and solve an equation that shows how much he originally had in his wallet.</p> $x - 576 = 137 \quad x = 713$	<p>Write an inequality for x that would give this isosceles triangle a perimeter of at least 137 ft.</p> $8x + 17 \geq 137$ 	<p>Simplify using exponent rules:</p> $(2x^2)(4x^3y^2) = 8x^5y^2$ $(-2x^2z)(-4y^2z)(-3xyz) = -24x^3y^3z^3$	<p>Write an inequality to show how much more needs to be saved to reach \$100</p> <table border="1" data-bbox="1232 270 1450 365"><thead><tr><th>Week</th><th>Amount Saved (\$)</th></tr></thead><tbody><tr><td>0</td><td>0</td></tr><tr><td>1</td><td>20</td></tr><tr><td>2</td><td>40</td></tr></tbody></table> $x \geq 60$	Week	Amount Saved (\$)	0	0	1	20	2	40																
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<p>Solve the equations:</p> $4(x + 10) = 50 + 2x$ $x = 5$ $8(4n - 4) = -5n - 32$ $n = 0$	<p>Solve each inequality and check to see that your answer is accurate.</p> $4(-6x - 3) \geq 12$ $x \leq -1$ $5(n + 10) - 6n < n + 66$ $-8 < n$	<p>Find the range values of the function for the given domain.</p> $y = 5x - 7; \{-3, -2, 4\}$ $\{-22, -17, 13\}$	<p>State the domain and range of the following data set:</p> $\{(-1, 2), (0, 4), (0, -3), (1, -3)\}$ $D: \{-1, 0, 1\}$ $R: \{-3, 2, 4\}$																								
<p>Solve the equation for r:</p> $C = 2\pi r$ $r = \frac{C}{2\pi}$	<p>Solve the equation for y:</p> $ax + by = c$ $y = \frac{c - ax}{b}$	<p>Solve the equation for m:</p> $\frac{2m + 4}{8} = w$ $m = 4w - 2$	<p>Solve the equation for x:</p> $m(x + y) = K$ $x = \frac{K}{m} - y$																								
<p>For $f(x) = -4x + 7$, find each value.</p> <p>a) $f(2)$ $f(2) = -1$</p> <p>b) $f(-3) + 1$ $f(-3) + 1 = 20$</p>	<p>Pete coaches soccer clinics and charges \$15.00 per player. T stands for the total amount of money he makes and P stands for the number of players that sign up.</p>	<p>Identify the independent and dependent variables.</p> <p>Independent: Number of players that sign up</p> <p>Dependent: Amount of money he makes</p>	<p>Simplify:</p> $\frac{5^3 \cdot 4^2 - 5^2 \cdot 4^3}{5 \cdot 4}$ 20																								
<p>Jani and her friends are going bowling. The equation $c(g) = 5 + 3g$ represents the total cost of renting shoes and bowling g games.</p> <p>How much does it cost to rent shoes? Explain how you know. It cost \$5.00 to rent the shoes. I know this because 5 is the constant or flat rate in the equation $c(g) = 5 + 3g$</p>	<p>Solve $c(4)$ and explain what it means in the context of the problem.</p> $c(4) = 17$ <p>This means she can rent shoes and bowl 4 games for \$17.00</p> <p>How much does Jani pay per game? Explain how you know.</p> <p>Jani pays \$3 per game because 3 is the slope or rate of change in the equation.</p>	<p>Twelve decreased by twice a number equals -34. Write an equation for this situation and then find the number.</p> $12 - 2n = -34; n = 23$	<p>Are the line parallel, perpendicular or neither?</p> $y = \frac{1}{4}x + 6$ $y = 4x - 5$ <p>Neither</p>																								
<table border="1" data-bbox="87 1562 412 1635"><tr><td>X</td><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td>Y</td><td>27</td><td>21</td><td>15</td><td>9</td><td>3</td></tr></table> <p>Consider the following table of values.</p> <p>a) Write a Now-Next rule to model the table.</p> <p>Next=Now - 6; starting at 27</p> <p>b) Write an equation in slope intercept form to model the table.</p> $y = -6x + 27$	X	0	1	2	3	4	Y	27	21	15	9	3	<p>Write each expression in its simplest equivalent form by expanding and then combining like terms.</p> <p>a) $7(x - 5) - 4x$; $3x - 35$</p> <p>b) $2(3x + 7) - (5x + 2)$; $x + 12$</p> <p>On a model airplane, the scale is 5 cm = 2m. If the wingspan of the scale model is 28.5 cm, what is the actual wingspan of the plane? 11.4 m</p>	<table border="1" data-bbox="810 1562 1141 1635"><tr><td>X</td><td>0</td><td>2</td><td>4</td><td>6</td><td>8</td></tr><tr><td>Y</td><td>12</td><td>18</td><td>24</td><td>30</td><td>36</td></tr></table> <p>Consider the table above. Does the table represent a linear function? YES</p> <p>Write an equation in slope intercept. $y = 3x + 12$</p> <p>Identify the slope. 3</p> <p>Identify the y-intercept. 12</p>	X	0	2	4	6	8	Y	12	18	24	30	36	<p>Find the equation of a line that is parallel to:</p> $y = \frac{1}{2}x + 3$ <p>and passes through point: (0, 2).</p> $y = \frac{1}{2}x + 2$ <p>Find the equation of a line that is perpendicular to:</p> $y = 3x - 1$ <p>and passes through point: (6, 0).</p> $y = -\frac{1}{3}x + 2$
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