### Lesson 12 Practice Problems

1. Select **all**of the ordered pairs $\left(x,y\right)$ that are solutions to the linear equation $2x+3y=6$.
	1. $\left(0,2\right)$
	2. $\left(0,6\right)$
	3. $\left(2,3\right)$
	4. $\left(3,-2\right)$
	5. $\left(3,0\right)$
	6. $\left(6,-2\right)$
2. The graph shows a linear relationship between $x$ and $y$.
* $x$ represents the number of comic books Priya buys at the store, all at the same price, and $y$ represents the amount of money (in dollars) Priya has after buying the comic books.
* 
	1. Find and interpret the $x$- and $y$-intercepts of this line.
	2. Find and interpret the slope of this line.
	3. Find an equation for this line.
	4. If Priya buys 3 comics, how much money will she have remaining?
1. Match each equation with its three solutions.
	1. $y=1.5x$
	2. $2x+3y=7$
	3. $x−y=4$
	4. $3x=\frac{y}{2}$
	5. $y=-x+1$
	6. $\left(14,21\right)$, $\left(2,3\right)$, $\left(8,12\right)$
	7. $\left(-3,-7\right)$, $\left(0,-4\right)$, $\left(-1,-5\right)$
	8. $\left(\frac{1}{8},\frac{7}{8}\right),\left(\frac{1}{2},\frac{1}{2}\right),\left(\frac{1}{4},\frac{3}{4}\right)$
	9. $\left(1,1\frac{2}{3}\right),\left(-1,3\right),\left(0,2\frac{1}{3}\right)$
	10. $\left(0.5,3\right)$, $\left(1,6\right)$, $\left(1.2,7.2\right)$
2. A container of fuel dispenses fuel at the rate of 5 gallons per second. If $y$ represents the amount of fuel remaining in the container, and $x$ represents the number of seconds that have passed since the fuel started dispensing, then $x$ and $y$ satisfy a linear relationship.
* In the coordinate plane, will the slope of the line representing that relationship have a positive, negative, or zero slope? Explain how you know.
* (From Unit 3, Lesson 10.)
1. A sandwich store charges a delivery fee to bring lunch to an office building. One office pays $33 for 4 turkey sandwiches. Another office pays $61 for 8 turkey sandwiches. How much does each turkey sandwich add to the cost of the delivery? Explain how you know.
* (From Unit 3, Lesson 5.)



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