## Lesson 10 Practice Problems

1. Select all of the ordered pairs $(x, y)$ that are solutions to the linear equation $2 x+3 y=6$.
A. $(0,2)$
B. $(0,6)$
C. $(2,3)$
D. $(3,-2)$
E. $(3,0)$
F. $(6,-2)$
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.

a. Find and interpret the $x$ - and $y$-intercepts of this line.
b. Find and interpret the slope of this line.
c. Find an equation for this line.
d. If Priya buys 3 comics, how much money will she have remaining?
3. Match each equation with its three solutions.
A. $y=1.5 x$
4. $(14,21),(2,3),(8,12)$
B. $2 x+3 y=7$
5. $(-3,-7),(0,-4),(-1,-5)$
C. $x-y=4$
6. $\left(\frac{1}{8}, \frac{7}{8}\right),\left(\frac{1}{2}, \frac{1}{2}\right),\left(\frac{1}{4}, \frac{3}{4}\right)$
D. $3 x=\frac{y}{2}$
7. $\left(1,1 \frac{2}{3}\right),(-1,3),\left(0,2 \frac{1}{3}\right)$
E. $y=-x+1$
8. $(0.5,3),(1,6),(1.2,7.2)$
9. 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 5, Lesson 9.)
5. 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 5, Lesson 4.)

