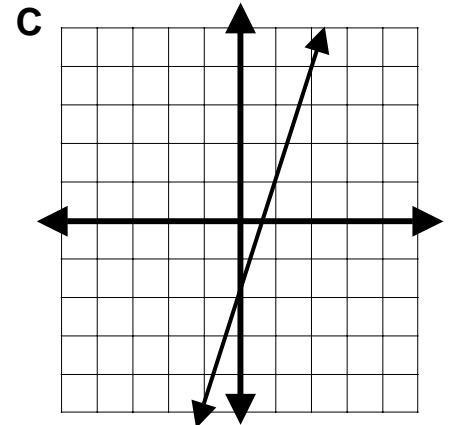
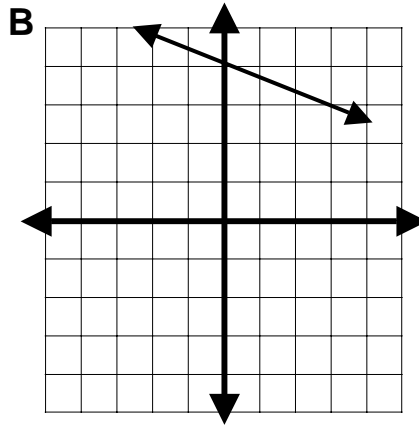
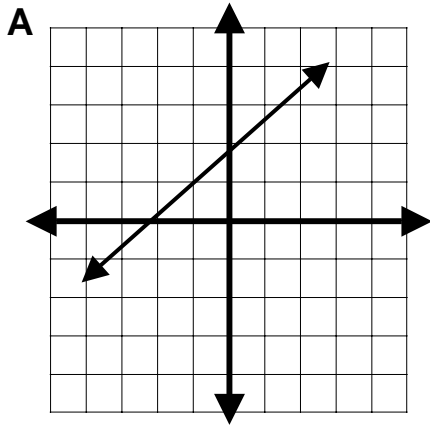


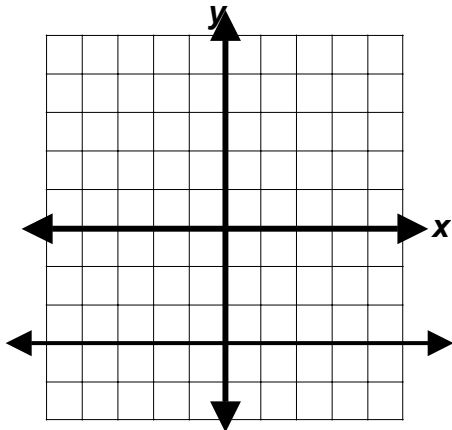
## Praxis Problems to Master

1) Given  $a + 3b + 2c = 47$  and  $3a + b + 2c = 21$ , what is the value of  $a + b + c$ ?



2) Which of the graphs above represents the equation,  $y = 3x - 2$ ?

3) In the  $xy$ -plane below, what is the equation of the line shown?



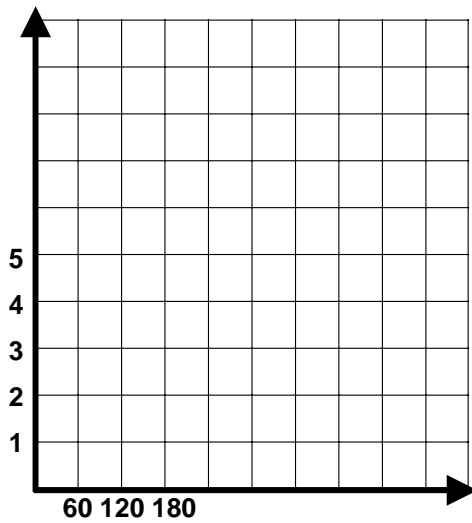
A)  $x = 3$

B)  $y = 3$

C)  $x = -3$

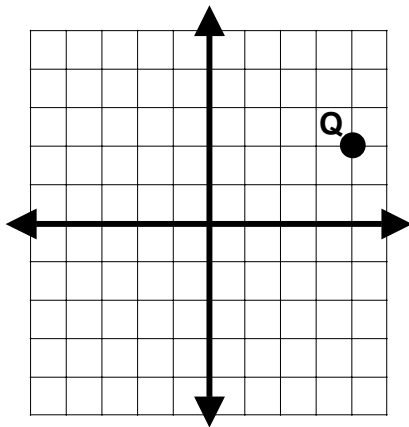
D)  $y = -3$

E)  $y = x - 3$



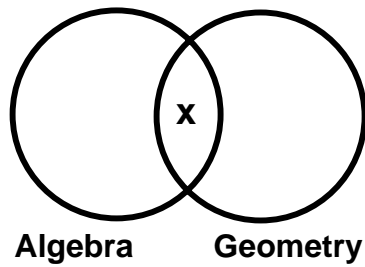
4) In the coordinate plane above, if  $y$  represents the number of hours, then  $x$  represents the equivalent number of \_\_\_\_\_?

- A) Days      B) Seconds      C) Weeks      D) Months      E) Minutes



5) Given the point  $Q$ , in the  $xy$ -plane above, is reflected about the  $x$ -axis to the point  $R$  (not shown). Then point  $R$  is then reflected about the  $y$ -axis to the point  $V$  (not shown). What are the coordinates of point  $V$ ?

- A)  $(4, -2)$       B)  $(-2, 4)$       C)  $(-4, -2)$       D)  $(2, -4)$       E)  $(2, 4)$



- 6) If 40 students are questioned and 20 say they are taking Algebra, while 25 say they are taking Geometry, what value does  $x$  represent in the diagram above?

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7)  $9\frac{2}{5} + 2\frac{7}{10} + 4\frac{9}{100}$  is equivalent to which of the following?

- A)  $9.2 + 2.7 + 4.9$
- B)  $9.2 + 2.7 + 4.09$
- C)  $9.4 + 2.07 + 4.09$
- D)  $9.4 + 2.7 + 4.9$
- E)  $9.4 + 2.7 + 4.09$

- 
- 8) Carl is baking chocolate chip cookies for his wife. If he uses 1 cup of flour and  $\frac{2}{3}$  cup of butter for the first batch and then uses  $1\frac{2}{3}$  cups of butter for the second batch, how much flour should he use in the second batch?

- 
- 9) Which of the following numbers is the smallest?

- A)  $-0.216$
- B)  $-0.216$
- C)  $-2.661$
- D)  $-2.016$
- E)  $-2.611$

10) Krista invited 107 people to her Sweet 16 party. The tables at the hotel seat 12. If 8 tables were full and 1 table had 3 people at it, how many people did not attend?

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11) In a school, 40 are taking Spanish and 30 are taking French. Ten students are taking both Spanish and French and 15 students are taking neither. How many students are in the school?

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12) Sheryl bought 15 apples which weighed a total of 7.5 pounds. What was the average weight of each apple in ounces? (*16 ounces = 1 pound*)

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13) Joe's Used Car dealership sold five cars for \$25,189, \$17,035, \$28,500, \$32,145, and \$15,070. What is the median price of the cars sold?

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14) If  $n$  is a multiple of 24, then it must be a multiple of all except:

- A) 2      B) 3      C) 4      D) 6      E) 10
- 

15) The diagonal of a square is 30. What is the length of a side?

16)

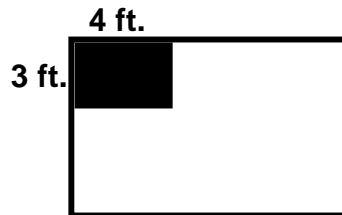
3	d	a
b	y	5
7	2	x

If the sum of the terms in each diagonal is equal, what is the value of  $x - a$ ?

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17) The first number in a sequence is 4. Each term after this is found by squaring the preceding term and subtracting 6. What is the fourth term in the sequence?

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18) The shaded area represents a closet in a 12 ft. x 18 ft. room. How much floor space is remaining?

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19) If a bike rental company charges \$20 plus \$.75/mile for a 12-hour adventure, which of the following represents the cost of renting a bike for 12 hours and traveling  $x$  miles?

A)  $20 + .75x$

B)  $12(20 + .75x)$

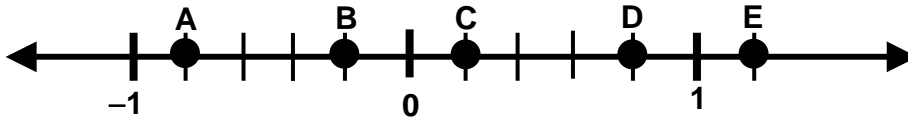
C)  $20 + 12(.75x)$

D)  $(20 + .75)x$

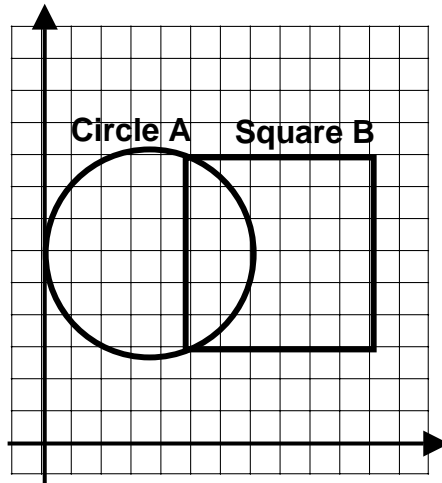
E)  $12(20 + .75)x$

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20) If a 240 minute documentary is edited down to 180 minutes. What is the percent decrease in the length of the movie?



21) Which of the coordinates above represents  $\frac{1}{5}$ ?



22) Which of the following points is in circle A and square B?

- A) (0,6)      B) (6,7)      C) (6,3)      D) (3,6)      E) (6,0)

23) Solve for  $x$ :  $7 > x - 8$

- A)  $x > 15$       B)  $x < 15$       C)  $x > 1$       D)  $x < 1$       E)  $x > -1$

24) If  $q$  is triple the value of  $m$ , what can you conclude about the quotient  $\frac{q}{3m}$ ?

- A) It is always greater than 3      B) It is always equal to 1  
 C) It is always equal to 0      D) No conclusion may be drawn.

25) Given  $x = 3$  and  $y = -4$ , what is the value of  $\frac{-3(2x - y)}{y - x}$  ?

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26) In a club of 90 students, there are 16 more boys than girls. How many boys and how many girls are in the club?

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27) If a machine prints 20 copies in 5 seconds, how many minutes will it take to print 780 copies?

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	<i>TYPES OF CRUST</i>		
<i>TOPPINGS</i>	Thin	Crunchy	Pan
onions	5	11	9
peppers	16	14	5
olives	8	7	5

28) Pizza Palace had a special one afternoon and offered three types of crust with three types of toppings. The chart above shows the number of each type sold. What percent of the 80 pizzas have onions or peppers as toppings.