- 17. Nicole's aerobics class exercises to fastpaced music. If the rate of the music is 120 beats per minute, how many beats would there be in a class that is 0.75 hour long?
 - A. 90

C.) 5,400

B. 160

D. 7,200

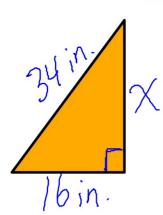
120 beats (45 min.) = 5400 beats

- 18. The length of the hypotenuse of a right triangle is 34 inches and the length of one of its legs is 16 inches. What is the length, in inches, of the other leg of this right triangle?
 - A. 16

C. 25

B. 18

D. 30



$$\chi^{2} + 16^{2} = 34^{2}$$

 $\chi^{2} + 256 = 1156$
 $- 256 - 256$
 $\sqrt{2} = 900$

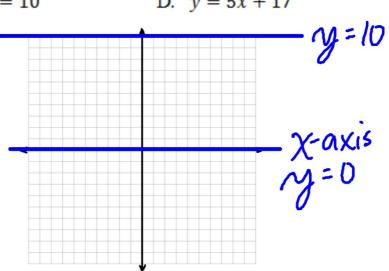
19. Which equation represents a line parallel to the x-axis?

A.
$$x = 5$$

C.
$$x = \frac{1}{3}y$$

(B.)
$$y = 10$$

D.
$$y = 5x + 17$$



20. Sam and Odel have been selling frozen pizzas for a class fundraiser. Sam has sold half as many pizzas as Odel. Together they have sold a total of 126 pizzas. How many pizzas did Sam sell?

B. 42

D. 84

Note: This stands for the # of pizzas

sold by Odel.

22. Which statement is true about the data set

$$6 = 6 \text{ (middle #)}$$
(C.) Mean = Median



- 23. Which value of x is in the solution set of the inequality -4x + 2 > 10?
- C. 3
- 18 > 10

B. 2

A. -2

D.) -4

- -4x+2>10 -2 -4x+2>10 -2 -4x+2>10 -4x+2>10 -4x+2>10 -4x+2>10 -4x+2>10 -4x+2>10 -4x+2>10
- The Big multiplied on because you negative or both sides.
- 24. Don placed a ladder against the side of his house as shown in the diagram below.

Ladder 20 h 19.5 h

Which equation could be used to find the distance, x, from the foot of the ladder to the base of the house?

A.
$$x = 20 - 19.5$$

B.
$$x = 20^2 - 19.5^2$$

C.
$$x = \sqrt{20^2 - 19.5^2}$$

D.
$$x = \sqrt{20^2 + 19.5^2}$$

 $\chi^2 = 20^2 - 19.5^2$

X= 1202-19.52

25. Which value of x is a solution of

$$\frac{5}{x}$$
 $\frac{x+13}{6}$?

$$\frac{5}{-15} = \frac{2}{6}$$
, so $\frac{1}{3} = \frac{1}{3}$

$$\chi(\chi+13) = 5.6$$

$$\chi^{2}+13\chi = 30$$

$$-30 - 30$$

$$\chi^{2}+13\chi-30=0$$

$$7 \chi^{2} + 13x - 30 = 0$$

$$(x+15)(x-2) = 0$$

$$(x+15=0 \text{ or } x-2=0)$$

$$(x=-15) \text{ or } x=2$$