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Classwork: Pg. 363

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Match each sentence with the correct equation.

1. Three times a number is equal to eighteen.

$$3x = 18$$

$$x - 4 = 10$$

$$3x = 18$$

2. A number decreased by six is four.

$$y - 6 = 4$$

$$\frac{m}{4} = 18$$

5. A number divided by four is eighteen.

$$\frac{m}{4} = 18$$

$$y - 6 = 4$$

$$x + 4 = 18$$

Write an equation to model each sentence.

7. A number divided by two equals five.

$$\frac{x}{2} = 5$$

12. The square of a number is twenty-five.

$$x^2 = 25$$

19. A number decreased by six is negative eight.

$$x - 6 = -8$$

20. Piano keys There are 16 more white keys than black keys on a full-sized piano keyboard.

Given: 16 more white keys. Total: 58

Find: how many black + white keys

Let x = number of black keys

Then let $x + 16$ = number of white keys

$$x + x + 16 = 88$$

$$2x + 16 = 88 - 16$$

22. Ages Mike is seven years older than Ayla. The sum of their ages is 29.

there are 36 black and 52 white keys

$$\frac{2x}{2} = \frac{72}{2}$$

$$x = 36$$