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MULTIPLE CHOICE PROBLEMS

1 What is the solution to the equation below?

$$\frac{2}{3}x - 4 = 20$$

- a $x = 12$
- b $x = 16$
- c $x = 24$
- d $x = 36$

2 The equation below can be used to convert between temperatures in degrees Celsius, C , and temperatures in degrees Fahrenheit, F .

$$\frac{C}{5} = \frac{F - 32}{9}$$

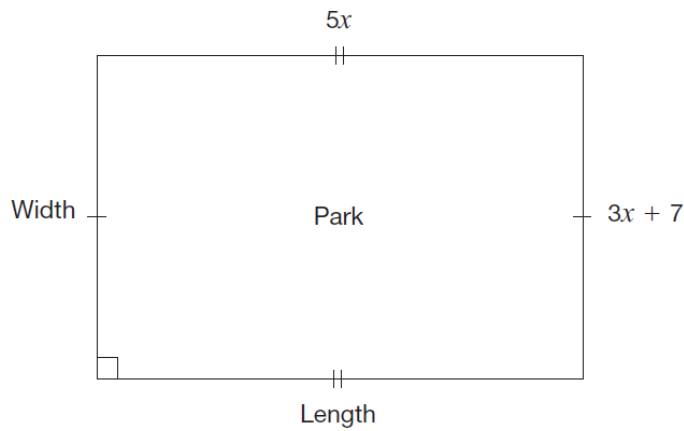
Which correctly completes the statement?

If the temperature in degrees Celsius is 15, the temperature in degrees Fahrenheit is

- a less than 0.
- b greater than 60.
- c between 20 and 40.
- d between 40 and 60.

3 Walking Around the Park

A park in the shape of a rectangle is pictured with algebraic expressions representing its length and width, in metres.



The perimeter of the park, P , can be determined using the equation

$$P = 2l + 2w.$$

Determine an equation to represent the perimeter of the park using the given sides.

$$P = \underline{\hspace{15em}}$$

The perimeter of the park is 350 m.

Determine the length of the park. Show your work.

The length of the park is m.

ANSWERS

1) d 2) d

3) Answers may vary. For example, $P = 2(5x) + 2(3x + 7)$ or $P = 5x + (3x + 7) + 5x + (3x + 7)$
or $P = 16x + 14$. The length of the park is 105 m.