7.1-7.3

Review

7.1 – Writing Equations

Write the word sentence as an equation.

1) 27 is 3 times a number y.

2) The difference of a number x and 4 is 3.

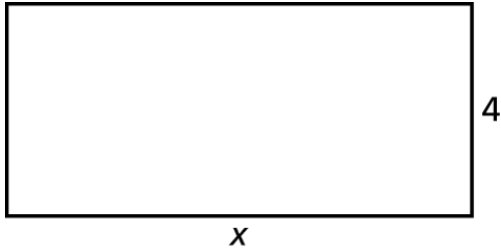3) 8 more than a number p is 17.

4) Twice of a number q is 14.

5) 12 less than a number j is 29.

7.1 – Writing Equations

6) Write an equation that can be used to find the value of *x*.

Perimeter of rectangle: 32 cm

x

4

Tell whether the given value is a solution of the equation.

7) $34 + x = 46; \; x = 12$

8) $y - 9 = 14; \; y = 22$

Solve the equation. Check your solution.

9) $3.5 = m - 2.2$

10) $p - 24 = 13$

Check:

Check:

Solve the equation. Check your solution.

11) $b + 19 = 57$

12) $\dfrac{2}{5} + m = \dfrac{5}{6}$

Check:

Check:

Solve the equation. Check your solution.

13) $\dfrac{p}{5} = 17$

14) $7k = 89$

Check:

Check:

Solve the equation. Check your solution.

15) $11 = \dfrac{m}{12}$

16) $5 \bullet x = 12$

Check:

Check:

17)   In the heavyweight class of professional wrestling, the junior weight limit is 190 pounds. This is 15 pounds heavier than the light heavyweight limit. Write and solve an equation to find the weight limit of the light heavyweight class. Check your solution.

18) You earn $5 for every friendship bracelet you sell. Write and solve an equation to find the number of bracelets you have to sell to earn $85. Check your solution.

19) **RIBBON** The length of the blue ribbon is two-thirds the length of the red ribbon. Write an equation you can use to find the length r of the red ribbon. *(Section 7.1)*

r

30 cm