

The Square Root Property Worksheet

The Square Root Property:

If $x^2 = a$, then $x = \pm\sqrt{a}$

Solve each equation using the Square Root Property.

1. $x^2 = 4$

2. $x^2 = 20$

3. $5x^2 = 240$

4. $4x^2 = 52$

5. $x^2 + 5 = 167$

6. $x^2 - 4 = 76$

7. $2x^2 + 5 = 19$

8. $(x-3)^2 = 16$

9. $3(x-4)^2 = 15$

10. $(5x+1)^2 = 25$

11. $(3x-4)^2 = 42$

12. $(5x-1)^2 = 16$

13. $(8x-9)^2 = 6$

14. $(7x+5)^2 = 10$

15. The product of two positive numbers is 140.
Determine the numbers if the larger is 5.6 times the smaller.

Let ____ = _____

Then _____ = _____

Equation:

16. The area of a rectangle is 30 square meters.
Find the length and width if the length is 1.45 times the width.

Let ____ = _____

Then _____ = _____

Equation:

Answers:

1. $x = 2, x = -2$
2. $x = 2\sqrt{5}, x = -2\sqrt{5}$
3. $x = 4\sqrt{3}, x = -4\sqrt{3}$
4. $x = \sqrt{13}, x = -\sqrt{13}$
5. $x = 9\sqrt{2}, x = -9\sqrt{2}$
6. $x = 4\sqrt{5}, x = -4\sqrt{5}$
7. $x = \sqrt{7}, x = -\sqrt{7}$
8. $x = -1, x = 7$
9. $x = 4 + \sqrt{5}, x = 4 - \sqrt{5}$
10. $x = -\frac{6}{5}, x = \frac{4}{5}$

11. $x = \frac{4 + \sqrt{42}}{3}, x = \frac{4 - \sqrt{42}}{3}$
12. $x = -\frac{3}{5}, x = 1$
13. $x = \frac{9 + \sqrt{6}}{8}, x = \frac{9 - \sqrt{6}}{8}$
14. $x = \frac{-5 + \sqrt{10}}{7}, x = \frac{-5 - \sqrt{10}}{7}$
15. 5 and 28
16. Width= 4.55 meters
Length=6.6 meters