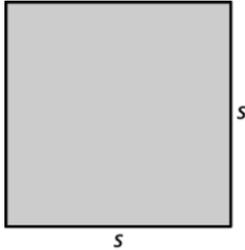


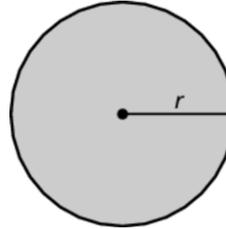
# 7.1 Practice A

Find the dimensions of the square or circle. Check your answer.

1. Area =  $196 \text{ in.}^2$



2. Area =  $36\pi \text{ m}^2$



Find the two square roots of the number.

3. 16

4. 0

Find the square root(s).

5.  $\sqrt{121}$

6.  $-\sqrt{\frac{1}{36}}$

7.  $\pm\sqrt{\frac{289}{49}}$

8.  $-\sqrt{0.64}$

Evaluate the expression.

9.  $2\sqrt{25} + 3$

10.  $7 - 12\sqrt{\frac{1}{9}}$

Copy and complete the statement with  $<$ ,  $>$ , or  $=$ .

11.  $\sqrt{64}$      ?     5

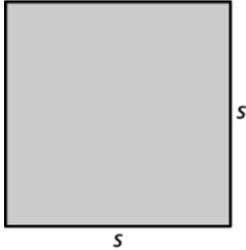
12. 0.6     ?      $\sqrt{0.49}$

13. The volume of a right circular cylinder is represented by  $V = \pi r^2 h$ , where  $r$  is the radius of the base (in feet). What is the radius of a right circular cylinder when the volume is  $144\pi$  cubic feet and the height is 9 feet?
14. The cost  $C$  (in dollars) of producing  $x$  widgets is represented by  $C = 4.5x^2$ . How many widgets are produced if the cost is \$544.50?
15. Two squares are drawn. The larger square has area of 400 square inches. The areas of the two squares have a ratio of 1 : 4. What is the side length  $s$  of the smaller square?

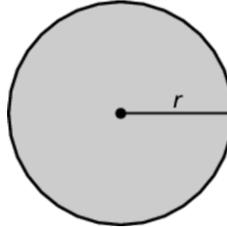
# 7.1 Practice B

Find the dimensions of the square or circle. Check your answer.

1. Area =  $\frac{169}{225} \text{ cm}^2$



2. Area =  $121\pi \text{ yd}^2$



Find the two square roots of the number.

3. 225

4. 400

Find the square root(s).

5.  $-\sqrt{484}$

6.  $\pm\sqrt{\frac{25}{64}}$

7.  $\sqrt{6.25}$

8.  $\pm\sqrt{1.69}$

Evaluate the expression.

9.  $6\sqrt{2.25} - 4.2$

10.  $3\left(\sqrt{\frac{48}{3}} - 2\right)$

Copy and complete the statement with  $<$ ,  $>$ , or  $=$ .

11.  $\sqrt{\frac{49}{9}} \text{ ? } 2$

12.  $\frac{2}{5} \text{ ? } \sqrt{\frac{12}{75}}$

13. The area of a sector of a circle is represented by  $A = \frac{5}{18}\pi r^2$ , where  $r$  is the radius of the circle (in meters). What is the radius when the area is  $40\pi$  square meters?

14. Two squares are drawn. The smaller square has an area of 256 square meters. The areas of the two squares have a ratio of 4 : 9. What is the side length  $s$  of the larger square?