

7.1

FINDING SQUARE ROOTS

Do Now

Find the product.

1. 12×12

2. 9×9

3. 18×18

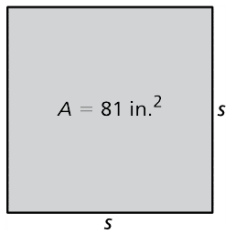
4. 1.6×1.6

5. 2.5×2.5

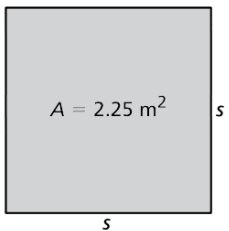
6. $\frac{2}{3} \times \frac{2}{3}$

Do Now

7)



8)



Perfect Squares

Perfect Squares that you should memorize

1^2

7^2

13^2

2^2

8^2

14^2

3^2

9^2

15^2

4^2

10^2

16^2

5^2

11^2

20^2

6^2

12^2

25^2

Roots Review

Parts of a Root

$$\sqrt{4}$$

Roots Review

Parts of a Root

$$2\sqrt{4}$$

Roots Review

Perfect Roots that you should memorize

$$\sqrt{1} \quad \sqrt{49} \quad \sqrt{169}$$

$$\sqrt{4} \quad \sqrt{64} \quad \sqrt{196}$$

$$\sqrt{9} \quad \sqrt{81} \quad \sqrt{225}$$

$$\sqrt{16} \quad \sqrt{100} \quad \sqrt{256}$$

$$\sqrt{25} \quad \sqrt{121} \quad \sqrt{400}$$

$$\sqrt{36} \quad \sqrt{144} \quad \sqrt{625}$$

Lesson

$$\sqrt{64}$$

$$-\sqrt{64}$$

$$\pm\sqrt{64}$$

Positive and...

Find the two square roots of 49.

Finding Square Roots

Find the square root(s).

a. $\sqrt{25}$

b. $-\sqrt{\frac{9}{16}}$

c. $\pm\sqrt{2.25}$

On Your Own

Find the two square roots of the number.

1. 36

2. 100

3. 121

Find the square root(s).

4. $-\sqrt{1}$

5. $\pm\sqrt{\frac{4}{25}}$

6. $\sqrt{12.25}$

Special property of roots

$$\sqrt{3^2}$$

$$\sqrt{5^2}$$

Special property of roots

$$(\sqrt{8})^2 \quad (\sqrt{11})^2$$

Operations with Square Roots

Evaluate each expression.

a. $5\sqrt{36} + 7$:

b. $\frac{1}{4} + \sqrt{\frac{18}{2}}$

Operations with Square Roots

Evaluate each expression.

c. $(\sqrt{81})^2 - 5$

On Your Own

Evaluate each expression.

a. $2\sqrt{144} - 30$

b. $\sqrt{\frac{36}{4}} + \frac{1}{6}$

On Your Own

c. $49 - (\sqrt{49})^2$