



The Pythagorean Theorem



Name _____ Class _____ Date _____

1 Seven **squared** is equal to ____.

- A 9
- B 14
- C 47
- D 49

7^2

2 Eight to the **third power** is equal to ____.

- A 24
- B 512
- C 1,024
- D 6,561

8^3

3 What is the **square root** of **169**?

- A 11
- B 12
- C 13
- D 14

$\sqrt{169}$

4 What is $\sqrt{25,600}$?

- A 140
- B 160
- C 170
- D 190

$\sqrt{25,600}$

5

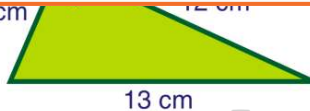


PREVIEW

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7

- A 12 cm
- B 5 cm
- C 13 cm
- D 17 cm



True or false?

- A true
- B false

9

The legs of a triangle measure **6 in.** and **7 in.** The hypotenuse measures **8 in.** The triangle is a **right triangle**.
 $a^2 + b^2 = c^2$

True or false?

- A true
- B false

10

In a right triangle, one leg measures **3 inches** and the other leg measures **4 inches**. What is the length of the **hypotenuse**?
 $a^2 + b^2 = c^2$

- A 3 in.
- B 4 in.
- C 5 in.
- D 14 in.



The Pythagorean Theorem

ANSWER KEY

Seven **squared** is equal to ____.

- A 9
- B 14
- C 47
- D 49

7^2

(d)

Eight to the **third power** is equal to ____.

- A 24
- B 512
- C 1,024
- D 6,561

8^3

(b)

What is the **square root** of **169**?

- A 11
- B 12
- C 13
- D 14

$\sqrt{169}$

(c)

What is $\sqrt{25,600}$?

- A 140
- B 160
- C 170
- D 190

$\sqrt{25,600}$

(b)



PREVIEW

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- C 15 cm
- D 17 cm



13 cm

- A true
- B false

The legs of a triangle measure **6 in.** and **7 in.** The hypotenuse measures **8 in.** The triangle is a **right triangle**.
 $a^2 + b^2 = c^2$

True or false?

- A true
- B false

(b)

In a right triangle, one leg measures **3 inches** and the other leg measures **4 inches**. What is the length of the **hypotenuse**?
 $a^2 + b^2 = c^2$

- A 3 in.
- B 4 in.
- C 5 in.
- D 14 in.

(c)