The Pythagorean Theorem

Math

Name_____ Class_____ Date_____

1 In a right triangle, one leg measures **12 inches** and the other leg measures **16 inches**. What is the length of the **hypotenuse**?

$a^2 + b^2 = c^2$

A 12 in. **C** 20 in.
B 16 in. **D** 40 in.

2 The hypotenuse of a right triangle is **26 cm**. One of the legs of the triangle is **24 cm**. What is the length of the **other leg**?

$a^2 + b^2 = c^2$

A 8 cm **C** 12 cm
B 10 cm **D** 20 cm

3 A **Pythagorean triple** is a set of numbers that always satisfy the equation, $a^2 + b^2 = c^2$. The numbers, **30**, **72**, **78**, are a Pythagorean triple.

4 In the figure shown, $\angle JLK$ is a **right angle**.

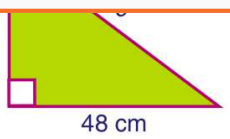
True or false?

5

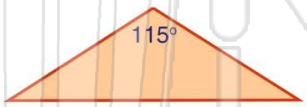
A 9 in. **C** 24 in.
B 12 in. **D** 30 in.

7

B 1,296 cm
C 60 cm
D 36 cm



9 What kind of **triangle** is shown in the figure?



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B obtuse
C right
D isosceles

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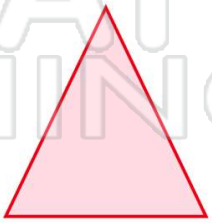

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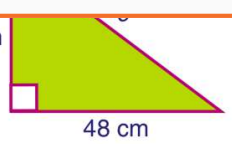

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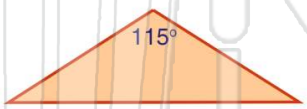

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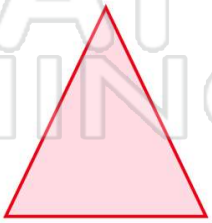

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