QUIZIZZ

NAME :

CLASS :

DATE :

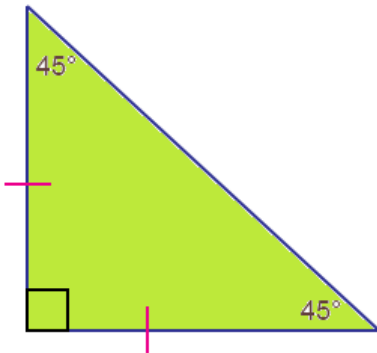**Homework 2.2 due Oct 5 *2 Problems Require Work**

12 Questions

1.

What are the lengths of the legs if the hypotenuse is $14\sqrt{2}$?
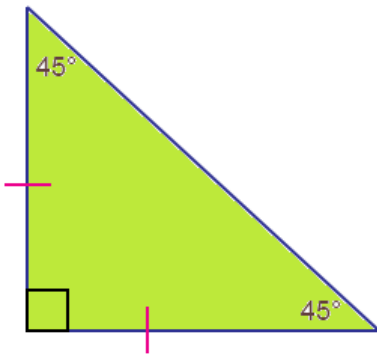
☐ a) $14\sqrt{2}$

☐ b) 14

☐ c) 7

☐ d) 28

2.

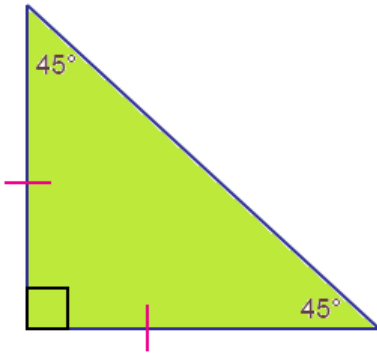If the legs measure 11 units, what is the length of the hypotenuse?

☐ a) 11

☐ b) 22

☐ c) $11\sqrt{2}$

☐ d) $\sqrt{22}$

② **Help**
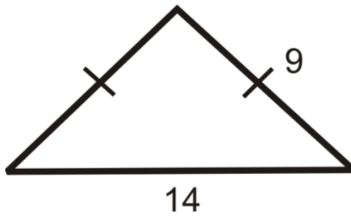
3.

If the hypotenuse measures 24, what do the legs measure?

- [ ] a) 24
- [ ] b) $24\sqrt{2}$
- [ ] c) $12\sqrt{2}$
- [ ] d) 12

4.

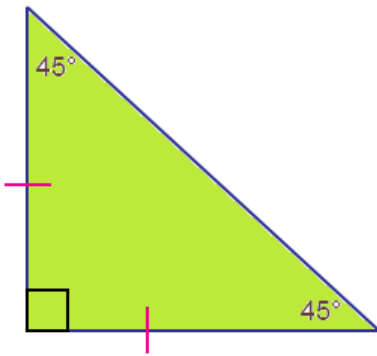Given the image, which two statements are correct?

- [ ] a) The other leg is 9
- [ ] b) The other leg is 14
- [ ] c) The perimeter of the isosceles triangle is 32
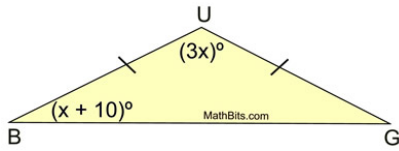- [ ] d) The other leg and perimeter cannot be determined

5.

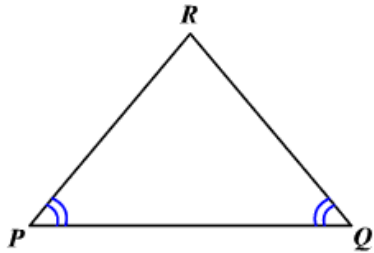In an isosceles right triangle, the sides have a pattern of

6.

(3x)°

(x + 10)°   MathBits.com

B   G

U

Given the isosceles triangle, solve for x

☐ a) X = 32

☐ b) X = 42.5

☐ c) X = 40

7.

R

P   Q

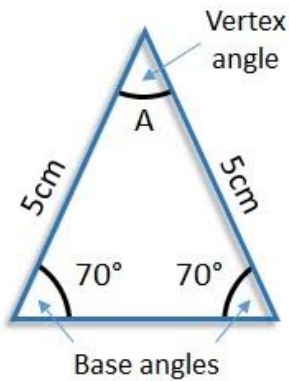If Angle R measures 88 degrees, what are the measures of Angles P and Q?

☐ a) 88

☐ b) 92

☐ c) 46

☐ d) 44

8.

Vertex angle

A

5cm   5cm

70°   70°

Base angles

What is the measure of the Vertex Angle (A)?

☐ a) 70

☐ b) 40

☐ c) 30

9.   A 10-foot ladder is leaning against a building such that it touches the building at a height of 7 feet. How far is the base of the ladder from the base of the building? *PYTHAGOREAN WORK REQUIRED*

☐ a) 12.2 feet

☐ b) 51 feet

☐ c) 3 feet

☐ d) 7.1 feet

10. A right triangles has a leg of measure 3 and a hypotenuse of measure 5. What is the measure of the other leg?

☐ a) 2   ☐ b) 4

☐ c) 3   ☐ d) 5

11. A rectangle has a diagonal of measure 15 and its width measures 9. Find the length of the rectangle and then determine its perimeter {choose two correct answers} PYTHAGOREAN WORK REQUIRED

☐ a) Perimeter is 24   ☐ b) Perimeter is 42

☐ c) Its length is 12   ☐ d) Its length is 17.5

☐ e) Perimeter is 53

12. A square has a diagonal of measure $13\sqrt{2}$. What is the perimeter of the square?

☐ a) 13   ☐ b) $52\sqrt{2}$

☐ c) 52