

Name _____

Unit One: Pretest

Solve. Show your work in steps.

1. $11 + 3 \times 2 =$

2. $(45 \div 9) + 7 =$

3. Find the square of:

9=

5=

4. Find the square root of:

36=

144=

5. Estimate the square root to nearest whole number.

$\sqrt{90} =$

$\sqrt{50} =$

6. Circle which of these numbers is a perfect square.

5 16 1 13 100

7. Make a perfect square with a line segment of 7cm.

8. A square patio has area 225 m^2 .

a) Find the dimensions of the patio.

b) The owner wants to put lights around the patio.
How many metres of lighting is needed?

c) Each string of lights is 25 m long.
How many strings of lights are needed?

9. Circle the sets of numbers below that are Pythagorean triples.

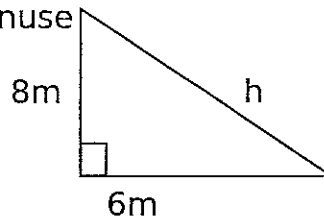
a) 20, 21, 29

b) 11, 34, 35

c) 20, 101, 99

d) 30, 34, 16

10. Find the length of the hypotenuse



11. Find the length of each side labeled with a variable.

30 cm

16cm

x

