

Name: _____

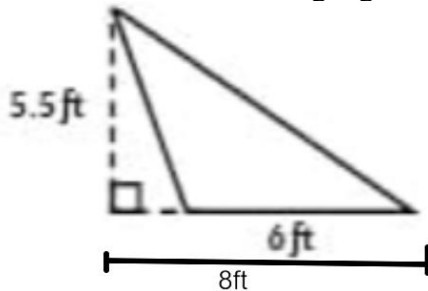
Grade 8
Pythagorean Theorem Test REVIEW

Show your work for the following

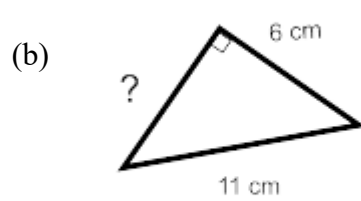
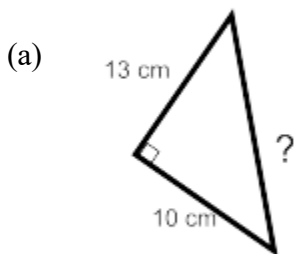
1. If a right triangle has $a = 17$ and $b = 8$ cm, then what is the measure of the hypotenuse?

2. Evaluate the area of a circle if the radius is 8 cm.

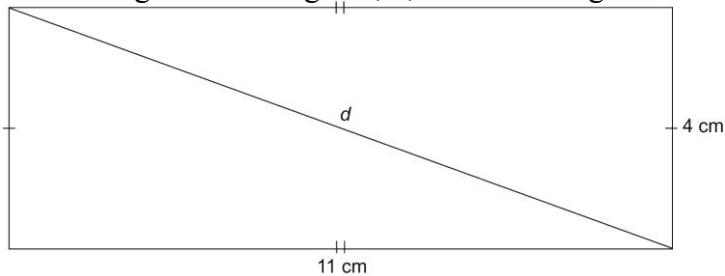
3. Evaluate the area of the triangle given the following picture



4. Find the length of the indicated side in each triangle (SHOW WORK)



5. Find the length of the diagonal, d , in this rectangle.



6. Determine whether a triangle with each set of side lengths is a right triangle. Justify your answers. (Show work)
8cm, 9 cm, and 11 cm

8. A trucker has two companies to choose to work at.
Company A follows route 1 and pays \$15/km
Company B follows route 2 and pays \$19/km



- a) What is the trucker's pay if he goes with company A?
- b) What is the trucker's pay if he goes with company B?
(Note: this requires 2 steps)
- c) Which is the better option? Explain