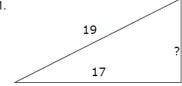
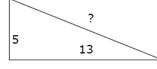
PYTHAGOREAN THEOREM - WORKSHEET

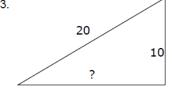
For each triangle find the missing length. Round your answer to the nearest tenth. Then find the area and the perimeter.

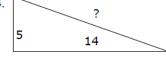
1.





3.





For #5-9 c is the hypotenuse of the right triangle ABC with sides a, b, c

5.
$$a = 12$$
; $b = 5$; $c =$

6.
$$a = 8$$
; $b = ____$; $c = 10$

7.
$$a = 15$$
; $b = ____$; $c = 17$

8.
$$a =$$
_____; $b = 40$; $c = 50$

9.
$$a = _____; b = 2 ; c = 4$$

10. Find a third number so that the three numbers form a right triangle:
i) 9,41
ii) 13,85
11. Ms. Green tells you that a right triangle has a hypotenuse of 13 and a leg of 5. She asks you to find the other leg of the triangle. What is your answer?
12. Two joggers run 8 miles north and then 5 miles west. What is the shortest distance, to the <i>nearest tenth</i> of a mile, they must travel to return to their starting point?
13. Oscar's dog house is shaped like a tent. The slanted sides are both 5 feet long and the bottom of the house is 6 feet across. What is the height of his dog house, in feet, at its tallest point?
14. To get from point A to point B you must avoid walking through a pond. To avoid the pond, you must walk 34 meters south and 41 meters east. To the <i>nearest meter</i> , how many meters would be saved if it were possible to walk through the pond?
15. A suitcase measures 24 inches long and the diagonal is 30 inches long. How much material is needed to cover one side of the suitcase?