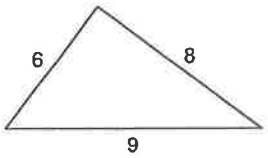
Name: _____

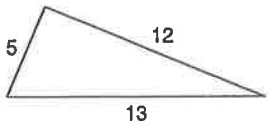
The Pythagorean Theorem

Do the following lengths form a right triangle?

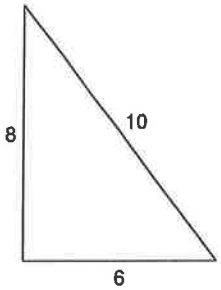
1)



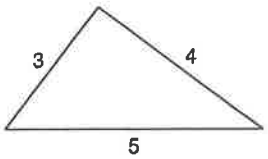
2)



3)



4)

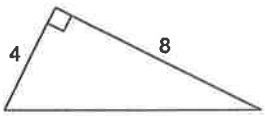


5) $a = 6.4,\ b = 12,\ c = 12.2$

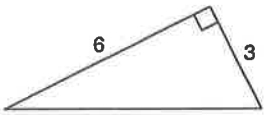
6) $a = 2.1,\ b = 7.2,\ c = 7.5$

Find each missing length to the nearest tenth.

7)



8)



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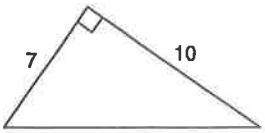
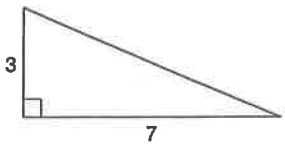
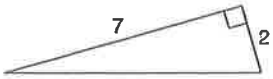


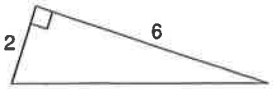
10)



11)



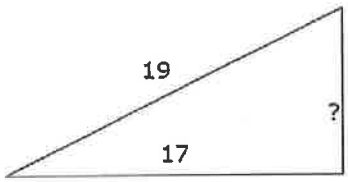
12)



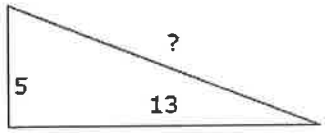
PYTHAGOREAN THEOREM - WORKSHEET

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

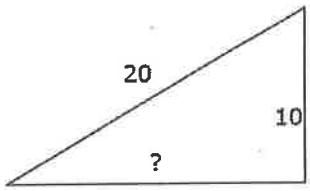
1.



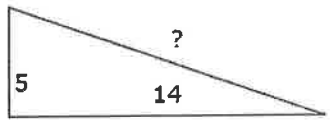
2.



3.



4.



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