

NAME:

PYTHAGOREAN THEOREM - WORKSHEET

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

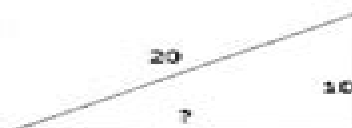
1.



2.



3.



4.



See next page

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

5.  $a = 12$ ;  $b = 5$ ;  $c = \underline{13}$

$$\begin{aligned} 12^2 + 5^2 &= c^2 \\ 144 + 25 &= c^2 \\ 169 &= c^2 \\ \pm 13 &= c \end{aligned}$$

6.  $a = 8$ ;  $b = \underline{6}$ ;  $c = 10$

$$\begin{aligned} 8^2 + b^2 &= 10^2 \\ 64 + b^2 &= 100 \\ b^2 &= 36 \\ b &= \pm 6 \end{aligned}$$

7.  $a = 15$ ;  $b = \underline{8}$ ;  $c = 17$

$$\begin{aligned} 15^2 + b^2 &= 17^2 \\ 225 + b^2 &= 289 \\ b^2 &= 64 \\ b &= \pm 8 \end{aligned}$$

8.  $a = \underline{30}$ ;  $b = 40$ ;  $c = 50$

$$\begin{aligned} a^2 + 40^2 &= 50^2 \\ a^2 + 1600 &= 2500 \\ a^2 &= 900 \\ a &= \pm 30 \end{aligned}$$

9.  $a = \underline{2\sqrt{3}}$ ;  $b = 2$ ;  $c = 4$

$$\begin{aligned} a^2 + 2^2 &= 4^2 \\ a^2 + 4 &= 16 \\ a^2 &= 12 \\ a &= \pm 2\sqrt{3} \end{aligned}$$

# Lesson 4 8 Problem Solving The Pythagorean Theorem Answers

**Lingjun Ying**



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