

9

THE PYTHAGOREAN THEOREM

- 1 If the hypotenuse of a triangle measures 5 and the base measures 3, what is the measure of the altitude to the base?

1 _____

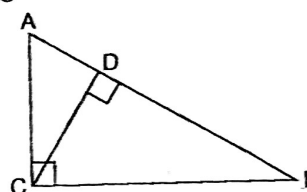
In problems 2 and 3, use the diagram.

- 2 If $AD = 10$ and $BD = 40$, find CD .

2 _____

- 3 If $AC = 9$ and $BD = 24$, find AD .

3 _____

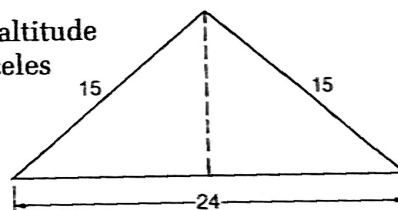


- 4 The points $A(-3, 5)$, $B(3, -1)$, and $C(-4, -3)$ form a triangle. Find the length of the median from C to \overline{AB} .

4 _____

- 5 Find the length of the altitude to the base of the isosceles triangle.

5 _____



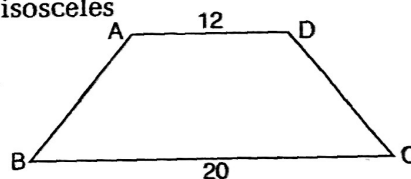
- 6 Find the perimeter of a rhombus with diagonals of 14 and 48.

6 _____

In problems 7 and 8, use the diagram.

- 7 Given: $ABCD$ is an isosceles trapezoid.
If $\angle B = 60^\circ$, find AB .

7 _____

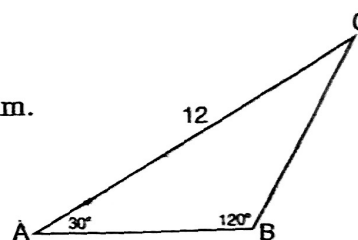


- 8 If $\angle B = 45^\circ$, find the perimeter of $ABCD$.

8 _____

- 9 Find AB in the diagram.

9 _____



Pythagorean Stack

Name: _____

How long is this side?

4 cm

12 cm

12 cm

3 cm

5 cm

7 cm

6 cm

2 cm

5 cm

6 cm

8 cm

10 cm

11 cm

12 cm

1 cm

15 cm

4 cm

25 cm

11 cm

8 cm

5 cm

2 cm

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Name: _____

How long is this side?

1 cm

15 cm

4 cm

11 cm

8 cm

5cm

2 cm

8 cm