8-3 Extra: Labeling Sides of a Triangle

EVEN PAGE

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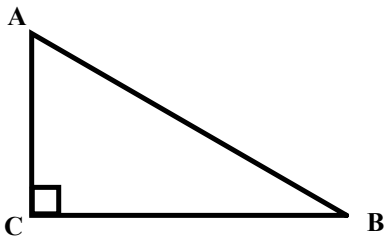
EQ: Can you label sides of a triangle and find missing parts?

How are you doing? Write answer next to Essential Question
1. I don't understand the material
2. I understand a little.
3. I understand this material.
4. I could teach this to someone

Summary: At least 3 sentences...

The hypotenuse is the side that is opposite the right angle, it is the side that is not one of the rays that makes the right angle. The hypotenuse is the longest side of the triangle. The side opposite an angle is the side that is not one of the rays that makes the angle. The side adjacent to an angle is a part of the angle, but is not the hypotenuse



Name

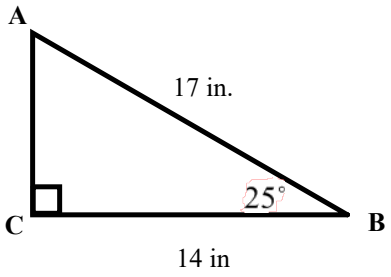
Side Opposite ∠A: _____

Side Adjacent to ∠A:_____

Side Opposite ∠B: _____

Side Adjacent to ∠B:_____

Hypotenuse: _____



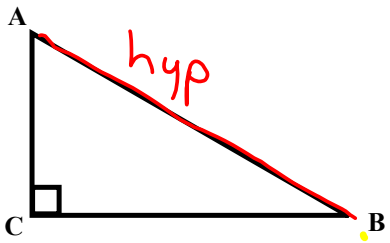
Name	Length - round to the nearest tenth.
Side Opposite ∠A: _____	_____
Side Adjacent to ∠A:_____	_____
Side Opposite ∠B: _____	_____
Side Adjacent to ∠B:_____	_____
Hypotenuse: _____	_____

m ∠A = _____

m ∠C = _____

On the worksheet Labeling Sides of a Triangle, give numerial answers for all blanks, round to the nearest tenth if needed.

The hypotenuse is the side that is opposite the right angle, it is the side that is not one of the rays that makes the right angle. The hypotenuse is the longest side of the triangle. The side opposite an angle is the side that is not one of the rays that makes the angle. The side adjacent to an angle is a part of the angle, but is not the hypotenuse



Name

Side Opposite ∠A: $\overline{CB}$

Side Adjacent to ∠A: $\overline{AC}$

Side Opposite ∠B: $\overline{AC}$

Side Adjacent to ∠B: $\overline{CB}$

Hypotenuse: $\overline{AB}$

Use pythagorean theorem to find missing side

$a^2+b^2=c^2$

$14^2+b^2=17^2$

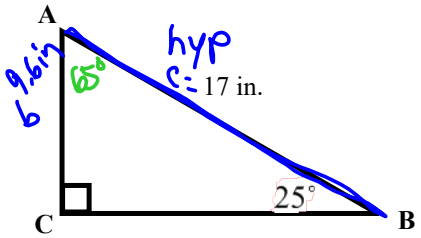
$-14^2 \quad -14^2$

$b^2=17^2-14^2$

$b=\sqrt{289-196}$

$b=\sqrt{93}$

$b \approx 9.6$ in



a=14 in

Find m<A

m<A = 90-25

m<A = 65°

Name		Length - round to the nearest tenth.
Side Opposite ∠A:	$\overline{BC}$	14in
Side Adjacent to ∠A:	$\overline{AC}$	9.6 in
Side Opposite ∠B:	$\overline{AC}$	9.6in
Side Adjacent to ∠B:	$\overline{BC}$	14in
Hypotenuse:	$\overline{AB}$	17in

m ∠A = 65^0

m ∠C = 90^0

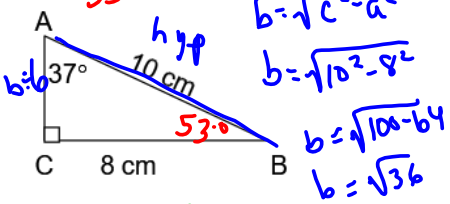
On the worksheet Labeling Sides of a Triangle, give numerial answers for all blanks, round to the nearest tenth if needed.

This is a sample page of HW3W, it is not the whole assignment.

HW3W 1 Label Sides of a Triangle Name: _____

Find all missing sides and angles of the triangle given. Write numerical answers in each blank. Angle C is always the right angle. Round to the nearest tenth if needed.

1.



m∠B = 90 − 37 = 53°

hyp

$b = \sqrt{c^2 - a^2}$

$b = \sqrt{10^2 - 8^2}$

$b = \sqrt{100 - 64}$

$b = \sqrt{36}$

$b = 6$

a. ∠C = 90°

b. ∠B = 53°

c. Side Opposite ∠A = 8cm

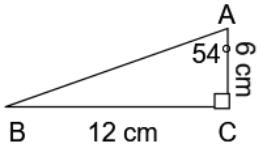
d. Side Adjacent to ∠A = 6cm

e. Side Opposite ∠B = 6cm

f. Side Adjacent to ∠ B = 8cm

g. Hypotenuse = 10cm

2.



a. ∠C = _____

b. ∠B = _____

c. Side Adjacent to ∠ B = _____

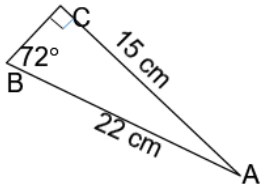
d. Side Opposite ∠B = _____

e. Side Adjacent to ∠A = _____

f. Side Opposite ∠A = _____

g. Hypotenuse = _____

3.



a. ∠C = _____

b. ∠B = _____

c. Side Opposite ∠A = _____

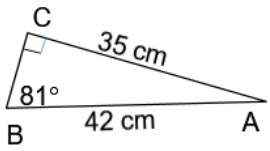
d. Hypotenuse = _____

e. Side Opposite ∠B = _____

f. Side Adjacent to ∠ B = _____

g. Side Adjacent to ∠A = _____

4.



a. ∠C = _____

b. ∠B = _____

c. Side Opposite ∠A = _____

d. Side Opposite ∠B = _____

e. Side Adjacent to ∠A = _____

f. Side Adjacent to ∠ B = _____

g. Hypotenuse = _____

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EVEN PAGE

EQ: Can you label sides of a triangle and find missing parts?

Write 3 Questions for this section on the left page

1. How are you doing?

Write answer next to the Summary

1: I don't understand the material.
2: I understand a little.
3: I understand this material.
4: I could teach this to someone.

Summary: At least 3 sentences...

Write this now.