The Pythagorean Theorem

Math G

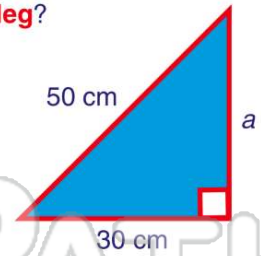
Name _____ Class _____ Date _____

1 What kind of **triangle** is shown in the figure?

A acute
B obtuse
C right
D isosceles

2 Based on the figure shown, how long is the **missing leg**?
$a^2 + b^2 = c^2$

A 9 cm
B 10 cm
C 20 cm
D 40 cm

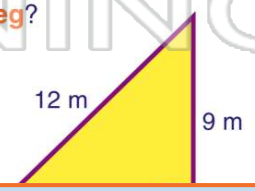


3 Based on the figure shown, how long is the **hypotenuse**?
$a^2 + b^2 = c^2$

A $\sqrt{30}$ ft
B $\sqrt{81}$ ft
C $\sqrt{113}$ ft
D

4 Based on the figure shown, how long is the **missing leg**?
$a^2 + b^2 = c^2$

A $\sqrt{144}$ m
B $\sqrt{81}$ m
C $\sqrt{64}$ m



5 E
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A
B
C
D

7 A
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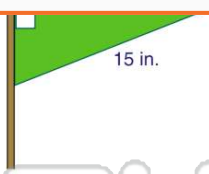
of the **longer side**?
$a^2 + b^2 = c^2$

A 24 cm
B 25 cm
C 30 cm
D 31 cm

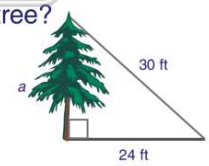
$a^2 + b^2 = c^2$

A 8 in.
B 9 in.
C 10 in.
D 11 in.



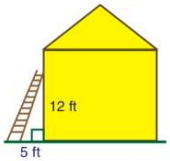
9 According to the figure shown, a tree casts a shadow on the ground that is **24 feet** long. The distance from the end of the shadow to the top of the tree is **30 feet**. How tall is the tree?
$a^2 + b^2 = c^2$

A 17 ft
B 18 ft
C 21 ft
D 22 ft



10 A ladder leans against a house as shown. It is **5 feet** away from the house. The ladder reaches the house **12 feet** from the ground. What is the length of the **ladder**?
$a^2 + b^2 = c^2$

A 17 ft
B 15 ft
C 14 ft
D 13 ft



The Pythagorean Theorem

Math G

ANSWER KEY

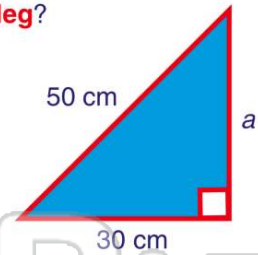
What kind of **triangle** is shown in the figure?

A acute
B obtuse
C right
D isosceles

c

Based on the figure shown, how long is the **missing leg**?
$a^2 + b^2 = c^2$

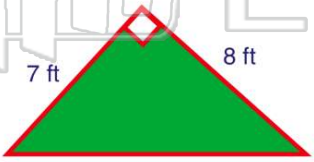
A 9 cm
B 10 cm
C 20 cm
D 40 cm



d

Based on the figure shown, how long is the **hypotenuse**?
$a^2 + b^2 = c^2$

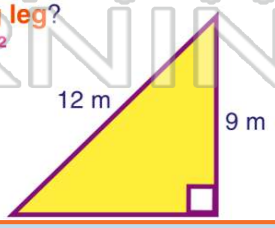
A $\sqrt{30}$ ft
B $\sqrt{81}$ ft
C $\sqrt{113}$ ft
D $\sqrt{120}$ ft



c

Based on the figure shown, how long is the **missing leg**?
$a^2 + b^2 = c^2$

A $\sqrt{144}$ m
B $\sqrt{81}$ m
C $\sqrt{64}$ m
D $\sqrt{63}$ m



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PREVIEW

Please Sign In or Sign Up to download the printable version of this worksheet

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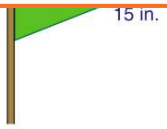
A 24 cm
B 25 cm
C 30 cm
D 31 cm

A 8 in.
B 9 in.
C 10 in.
D 11 in.



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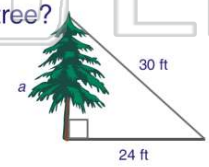

b

A ladder leans against a house as shown. It is **5 feet** away from the house. The ladder reaches the house **12 feet** from the ground. What is the length of the **ladder**?
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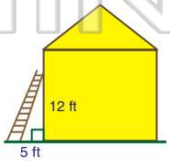

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