



Pythagorean Theorem

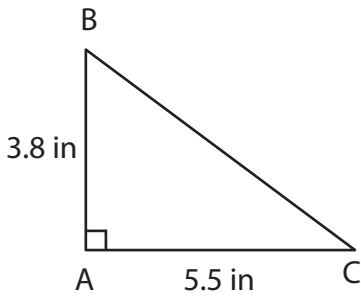
Name _____

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PT:16

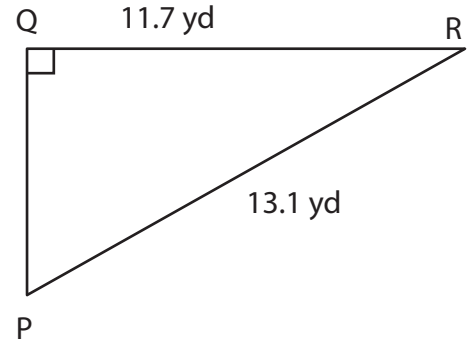
Find the missing side length of each right triangle by applying the Pythagorean theorem. Round the answer to nearest tenth place.

1)



BC =

2)



PQ =

Find the missing side length where 'c' is the hypotenuse of a right triangle, a and b are two legs of a right triangle. Round the answer to the nearest tenth place.

1) a = _____

2) a = 10.5 yd

3) a = 1.5 in

b = 6.2 ft

b = _____

b = 3.6 in

c = 7.3 ft

c = 15.5 yd

c = _____

Complete the table. 'c' is the hypotenuse of a right triangle, a and b are two legs of a triangle. Round the answer to the nearest tenth place.

1)

a	b	c
1.4 yd		4.8 yd
5.5 in	7.5 in	
	2.9 ft	8.3 ft
12.2 in		17.3 in

2)

a	b	c
13.5 ft	11.5 ft	
	2.2 yd	5.9 yd
8.1 in		12.1 in
	4.4 ft	9.8 ft



Pythagorean Theorem

Name _____

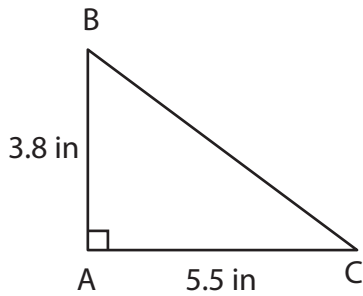
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Answer key

PT:16

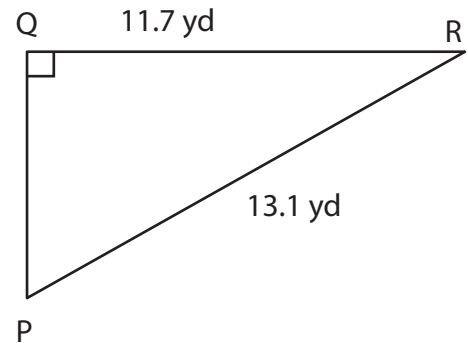
Find the missing side length of each right triangle by applying the Pythagorean theorem. Round the answer to nearest tenth place.

1)



BC = **6.7 in**

2)



PQ = **5.9 yd**

Find the missing side length where 'c' is the hypotenuse of a right triangle, a and b are two legs of a right triangle. Round the answer to the nearest tenth place.

1) a = **3.9 ft**

2) a = 10.5 yd

3) a = 1.5 in

b = 6.2 ft

b = **11.4 yd**

b = 3.6 in

c = 7.3 ft

c = 15.5 yd

c = **3.9 in**

Complete the table. 'c' is the hypotenuse of a right triangle, a and b are two legs of a triangle. Round the answer to the nearest tenth place.

1)

a	b	c
1.4 yd	4.6 yd	4.8 yd
5.5 in	7.5 in	9.3 in
7.8 ft	2.9 ft	8.3 ft
12.2 in	12.2 in	17.3 in

2)

a	b	c
13.5 ft	11.5 ft	17.7 ft
5.5 yd	2.2 yd	5.9 yd
8.1 in	9 in	12.1 in
8.8 ft	4.4 ft	9.8 ft