Pythagorean Theorem

Name _____

Score _____

PT:19

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

1) a = 6.1 mm

b = _____

c = 11.5 mm

2) a = _____

b = 15.6 m

c = 19.4 m

3) a = 3.2 cm

b = 5.9 cm

c = _____

Complete the table.

1)

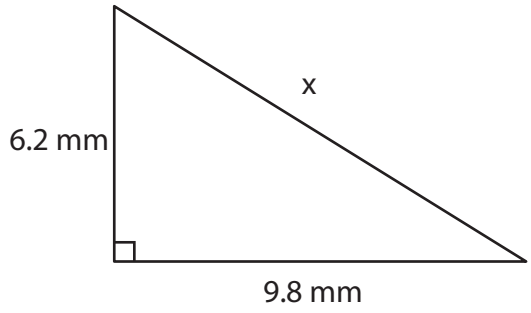
a	b	Hypotenuse c
3.5 m	1.5 m	
	13.8 cm	16.2 cm
4.2 mm	2.4 mm	
11.5 m		15.9 m

2)

a	b	Hypotenuse c
10.2 cm		15.1 cm
5.6 mm	6.9 mm	
12.3 m		17.8 m
	2.8 mm	7.6 mm

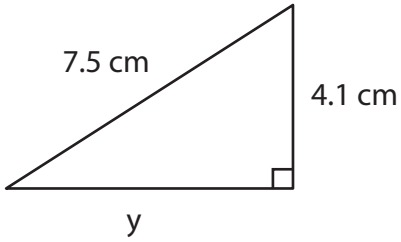
Find the missing side length of each right triangle.

1)



x =

2)



y =

Pythagorean Theorem

Name _____

Score _____

Answer key

PT:19

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

1) a = 6.1 mm
b = **9.7 mm**
c = 11.5 mm

2) a = **11.5 m**
b = 15.6 m
c = 19.4 m

3) a = 3.2 cm
b = 5.9 cm
c = **6.7 cm**

Complete the table.

1)

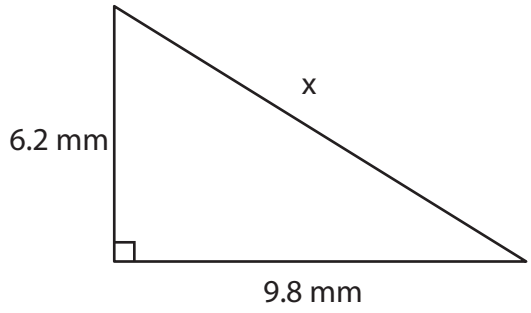
a	b	Hypotenuse c
3.5 m	1.5 m	**3.8 m**
8.5 cm	13.8 cm	16.2 cm
4.2 mm	2.4 mm	**4.8 mm**
11.5 m	**11 m**	15.9 m

2)

a	b	Hypotenuse c
10.2 cm	**11.1 cm**	15.1 cm
5.6 mm	6.9 mm	**8.9 mm**
12.3 m	**12.9 m**	17.8 m
7.1 mm	2.8 mm	7.6 mm

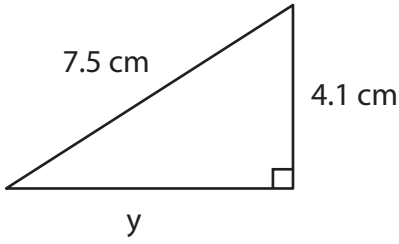
Find the missing side length of each right triangle.

1)



x = **11.6 mm**

2)



y = **6.3 cm**