Pythagorean Theorem

Name _____

Score _____

PT:21

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 = _____ b = 8.5 m c = 14.5 m

2) a = 6.3 cm b = 3.6 cm c = _____

3) a = 12.7 mm b = _____ c = 18.4 mm

Complete the table.

1)

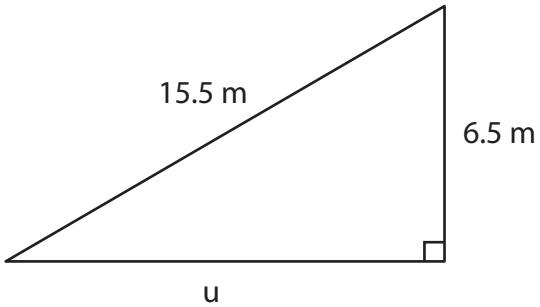
a	b	c
	4.4 cm	7.5 cm
14.6 mm	15.2 mm	
10.9 m		16.9 m
2.9 cm	2.9 cm	

2)

a	b	c
6.1 mm		11.8 mm
	3.8 m	8 m
8.3 cm		12 cm
1.5 m	5.5 m	

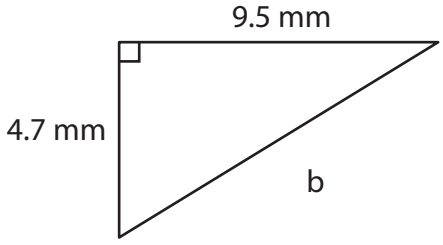
Find the missing side length of each right triangle.

1)



u = _____

2)



b = _____

Pythagorean Theorem

Name _____

Score _____

Answer key

PT:21

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 = **11.7 m**
b = 8.5 m
c = 14.5 m

2) a = 6.3 cm
b = 3.6 cm
c = **7.3 cm**

3) a = 12.7 mm
b = **13.3 mm**
c = 18.4 mm

Complete the table.

1)

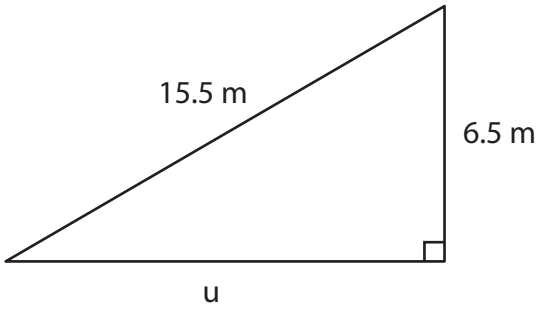
a	b	c
6.1 cm	4.4 cm	7.5 cm
14.6 mm	15.2 mm	**21.1 mm**
10.9 m	**12.9 m**	16.9 m
2.9 cm	2.9 cm	**4.1 cm**

2)

a	b	c
6.1 mm	**10.1 mm**	11.8 mm
7 m	3.8 m	8 m
8.3 cm	**8.7 cm**	12 cm
1.5 m	5.5 m	**5.7 m**

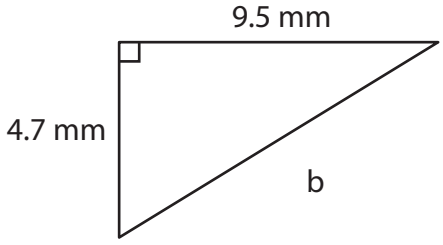
Find the missing side length of each right triangle.

1)



u = **14.1 m**

2)



b = **10.6 mm**