

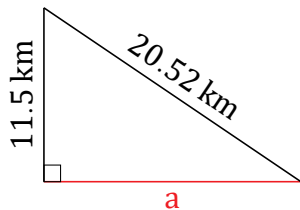
Pythagorean Theorem (E)

Name: _____

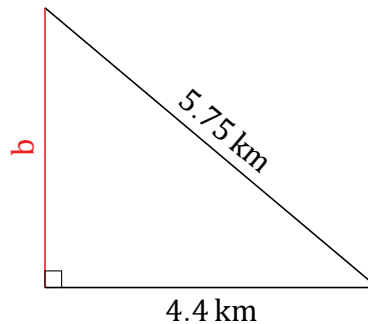
Date: _____

Calculate the missing side measurement using $a^2 + b^2 = c^2$.

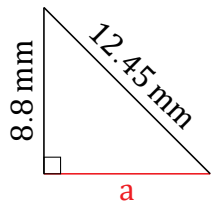
1.



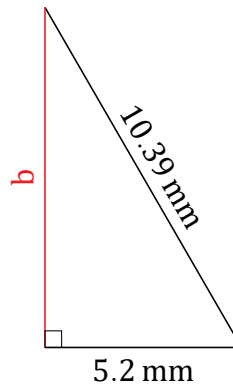
2.



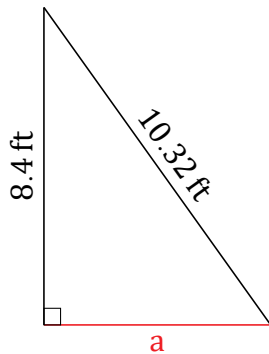
3.



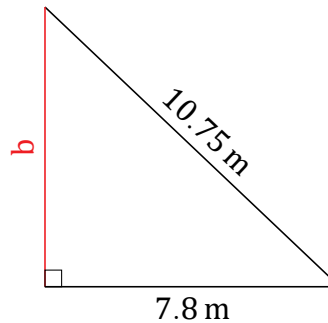
4.



5.



6.



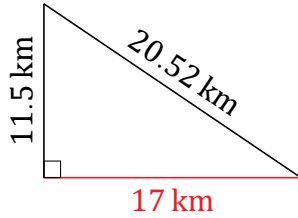
Pythagorean Theorem (E) Answers

Name: _____

Date: _____

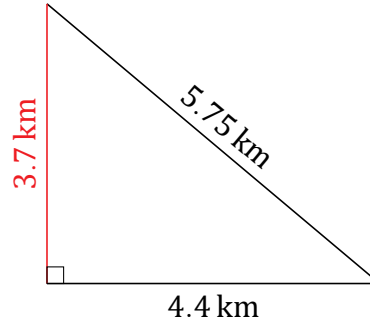
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



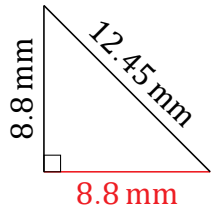
$$a^2 + 11.5^2 = 20.52^2$$
$$a = \sqrt{421.0704 - 132.25}$$
$$a = 17 \text{ km}$$

2.



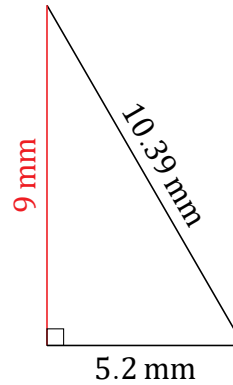
$$4.4^2 + b^2 = 5.75^2$$
$$b = \sqrt{33.0625 - 19.36}$$
$$b = 3.7 \text{ km}$$

3.



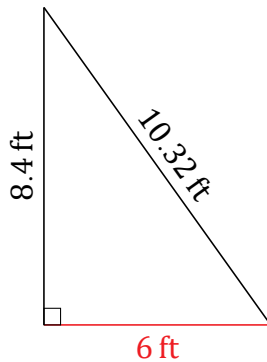
$$a^2 + 8.8^2 = 12.45^2$$
$$a = \sqrt{155.0025 - 77.44}$$
$$a = 8.8 \text{ mm}$$

4.



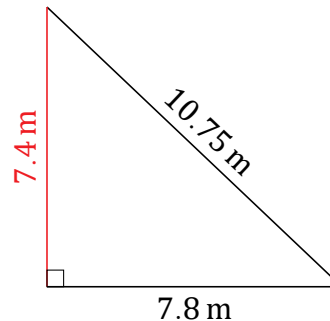
$$5.2^2 + b^2 = 10.39^2$$
$$b = \sqrt{107.9521 - 27.04}$$
$$b = 9 \text{ mm}$$

5.



$$a^2 + 8.4^2 = 10.32^2$$
$$a = \sqrt{106.5024 - 70.56}$$
$$a = 6 \text{ ft}$$

6.



$$7.8^2 + b^2 = 10.75^2$$
$$b = \sqrt{115.5625 - 60.84}$$
$$b = 7.4 \text{ m}$$