

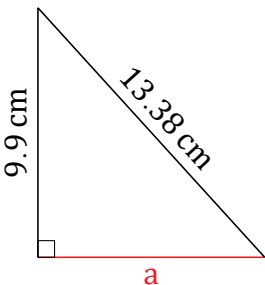
Pythagorean Theorem (A)

Name: _____

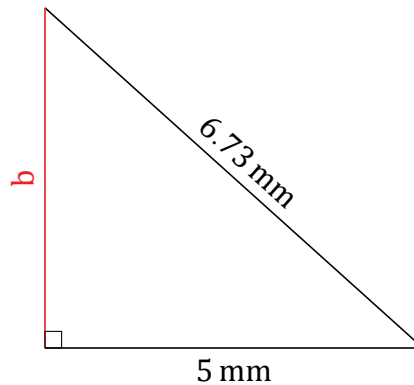
Date: _____

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

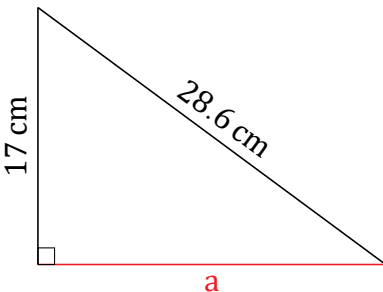
1.



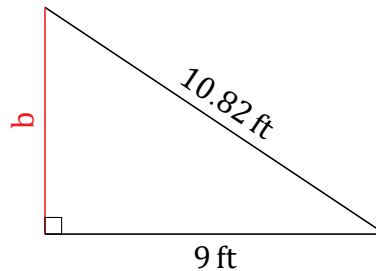
2.



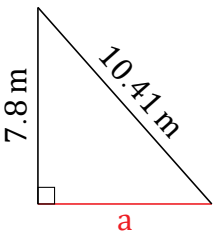
3.



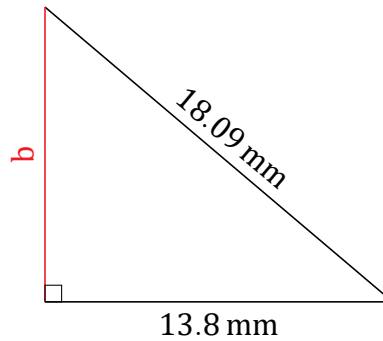
4.



5.



6.



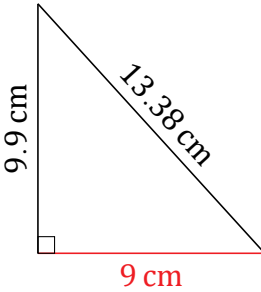
Pythagorean Theorem (A) Answers

Name: _____

Date: _____

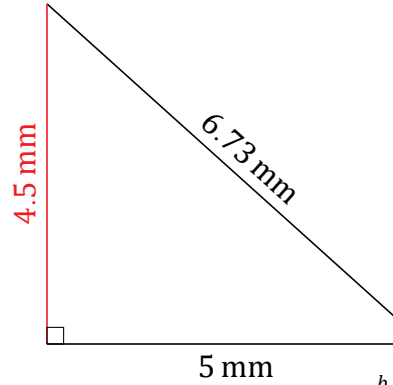
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



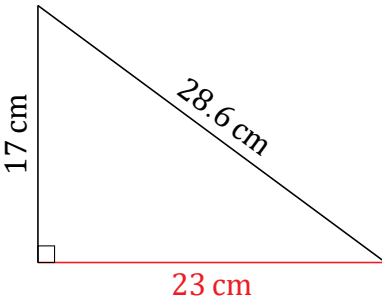
$$\begin{aligned} a^2 + 9.9^2 &= 13.38^2 \\ a &= \sqrt{179.0244 - 98.01} \\ a &= 9 \text{ cm} \end{aligned}$$

2.



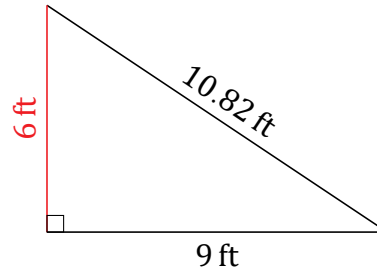
$$\begin{aligned} 5^2 + b^2 &= 6.73^2 \\ b &= \sqrt{45.2929 - 25} \\ b &= 4.5 \text{ mm} \end{aligned}$$

3.



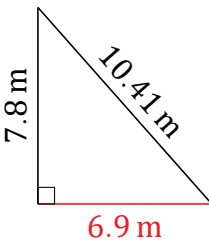
$$\begin{aligned} a^2 + 17^2 &= 28.6^2 \\ a &= \sqrt{817.96 - 289} \\ a &= 23 \text{ cm} \end{aligned}$$

4.



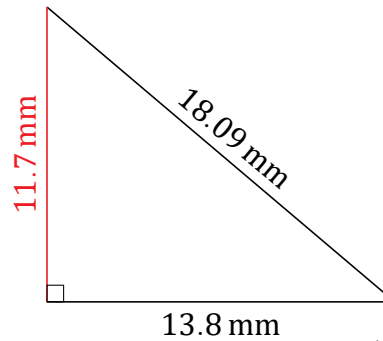
$$\begin{aligned} 9^2 + b^2 &= 10.82^2 \\ b &= \sqrt{117.0724 - 81} \\ b &= 6 \text{ ft} \end{aligned}$$

5.



$$\begin{aligned} a^2 + 7.8^2 &= 10.41^2 \\ a &= \sqrt{108.3681 - 60.84} \\ a &= 6.9 \text{ m} \end{aligned}$$

6.



$$\begin{aligned} 13.8^2 + b^2 &= 18.09^2 \\ b &= \sqrt{327.2481 - 190.44} \\ b &= 11.7 \text{ mm} \end{aligned}$$