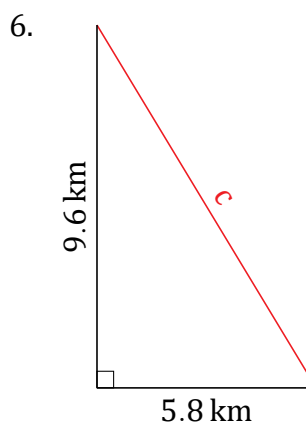
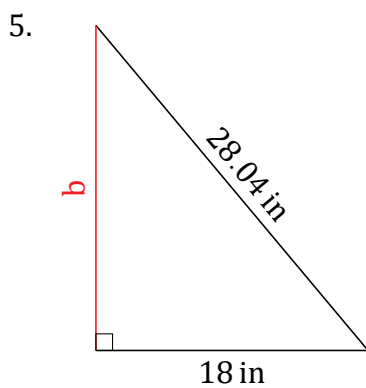
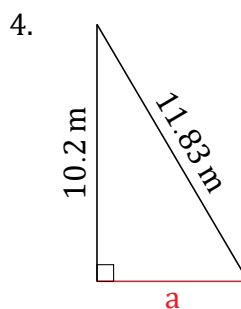
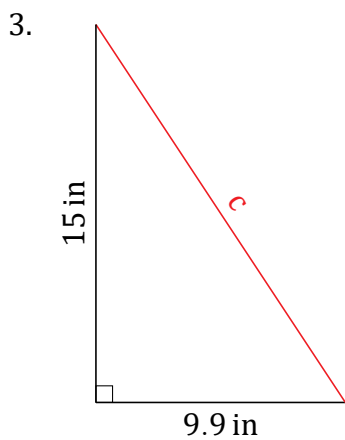
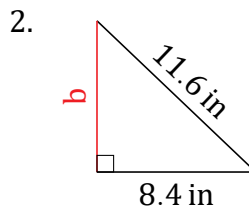
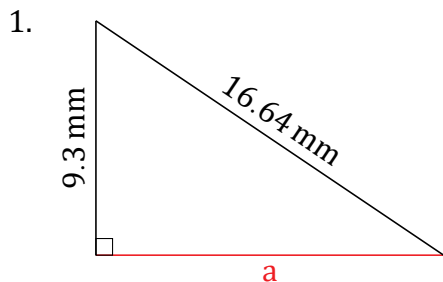


# Pythagorean Theorem (B)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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



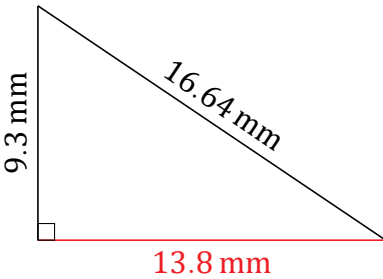
# Pythagorean Theorem (B) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

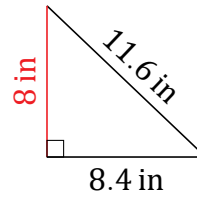
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .

1.



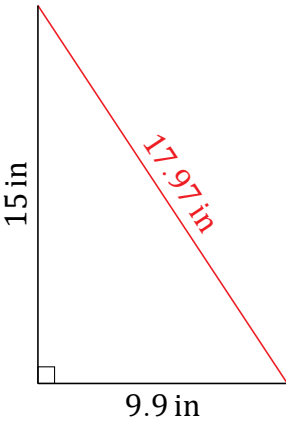
$$\begin{aligned}a^2 + 9.3^2 &= 16.64^2 \\a &= \sqrt{276.8896 - 86.49} \\a &= 13.8 \text{ mm}\end{aligned}$$

2.



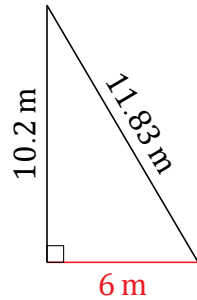
$$\begin{aligned}8.4^2 + b^2 &= 11.6^2 \\b &= \sqrt{134.56 - 70.56} \\b &= 8 \text{ in}\end{aligned}$$

3.



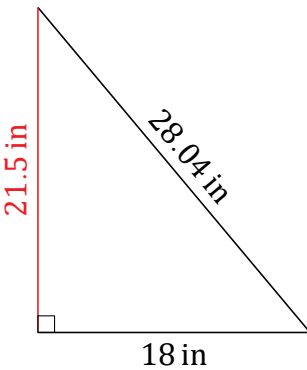
$$\begin{aligned}9.9^2 + 15^2 &= c^2 \\c &= \sqrt{98.01 + 225} \\c &= 17.97 \text{ in}\end{aligned}$$

4.



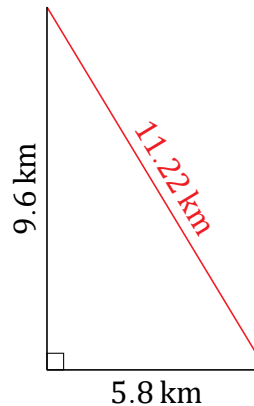
$$\begin{aligned}a^2 + 10.2^2 &= 11.83^2 \\a &= \sqrt{139.9489 - 104.04} \\a &= 6 \text{ m}\end{aligned}$$

5.



$$\begin{aligned}18^2 + b^2 &= 28.04^2 \\b &= \sqrt{786.2416 - 324} \\b &= 21.5 \text{ in}\end{aligned}$$

6.



$$\begin{aligned}5.8^2 + 9.6^2 &= c^2 \\c &= \sqrt{33.64 + 92.16} \\c &= 11.22 \text{ km}\end{aligned}$$