

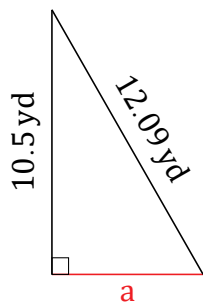
Pythagorean Theorem (H)

Name: _____

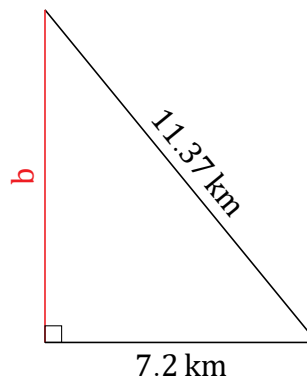
Date: _____

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

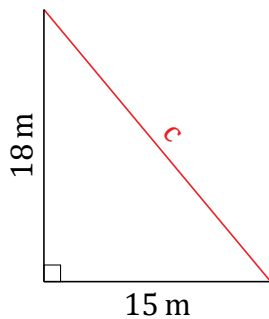
1.



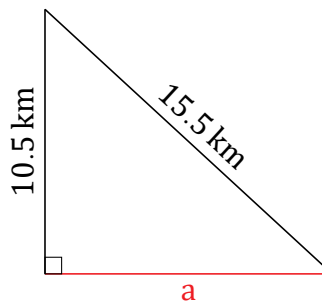
2.



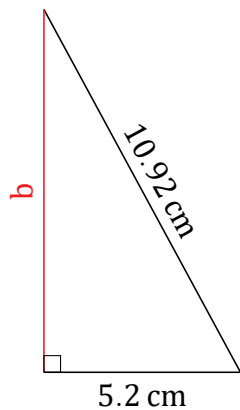
3.



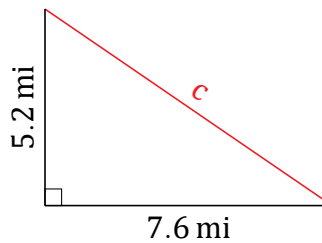
4.



5.



6.



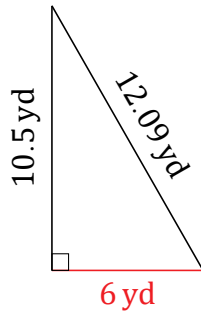
Pythagorean Theorem (H) Answers

Name: _____

Date: _____

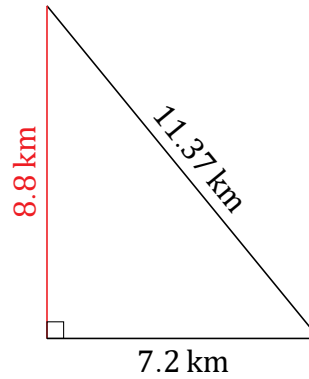
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



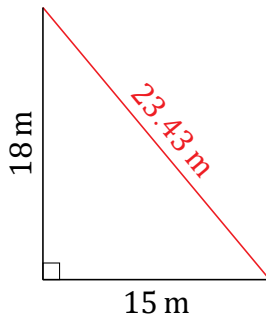
$$a^2 + 10.5^2 = 12.09^2$$
$$a = \sqrt{146.1681 - 110.25}$$
$$a = 6 \text{ yd}$$

2.



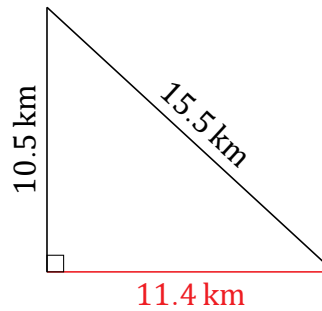
$$7.2^2 + b^2 = 11.37^2$$
$$b = \sqrt{129.2769 - 51.84}$$
$$b = 8.8 \text{ km}$$

3.



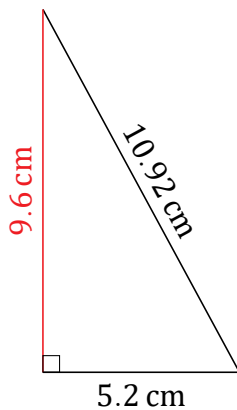
$$15^2 + 18^2 = c^2$$
$$c = \sqrt{225 + 324}$$
$$c = 23.43 \text{ m}$$

4.



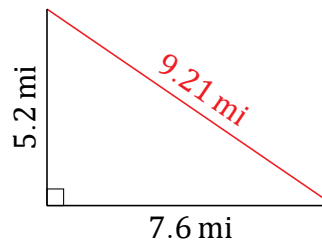
$$a^2 + 10.5^2 = 15.5^2$$
$$a = \sqrt{240.25 - 110.25}$$
$$a = 11.4 \text{ km}$$

5.



$$5.2^2 + b^2 = 10.92^2$$
$$b = \sqrt{119.2464 - 27.04}$$
$$b = 9.6 \text{ cm}$$

6.



$$7.6^2 + 5.2^2 = c^2$$
$$c = \sqrt{57.76 + 27.04}$$
$$c = 9.21 \text{ mi}$$