

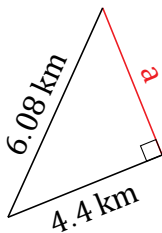
Pythagorean Theorem (E)

Name: _____

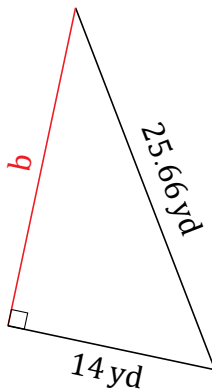
Date: _____

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

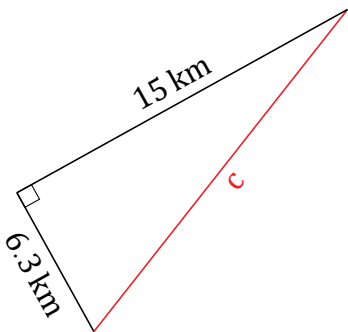
1.



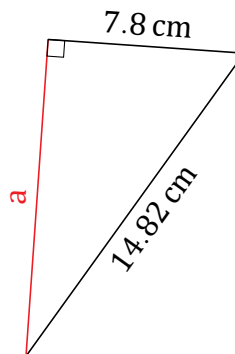
2.



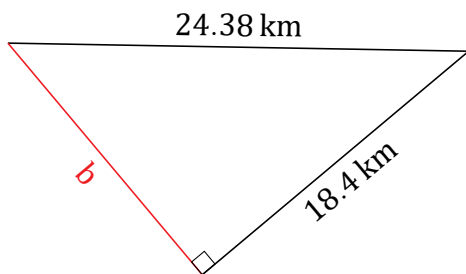
3.



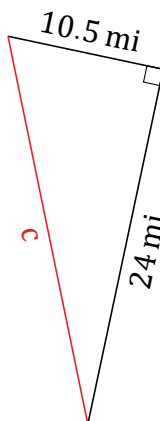
4.



5.



6.



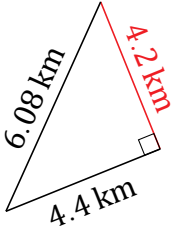
Pythagorean Theorem (E) Answers

Name: _____

Date: _____

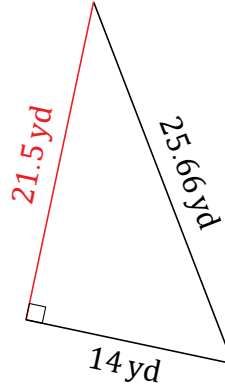
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



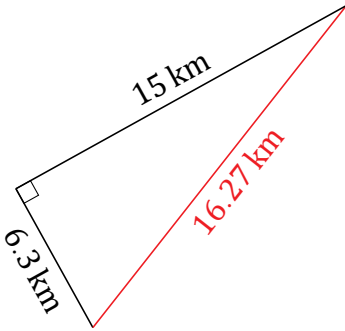
$$a^2 + 4.4^2 = 6.08^2$$
$$a = \sqrt{36.9664 - 19.36}$$
$$a = 4.2 \text{ km}$$

2.



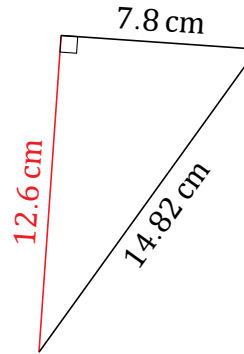
$$14^2 + b^2 = 25.66^2$$
$$b = \sqrt{658.4356 - 196}$$
$$b = 21.5 \text{ yd}$$

3.



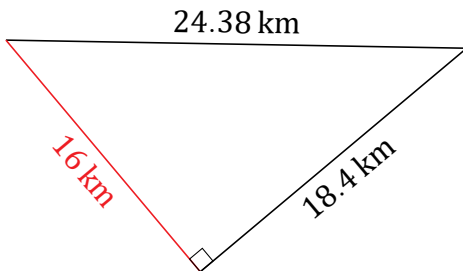
$$6.3^2 + 15^2 = c^2$$
$$c = \sqrt{39.69 + 225}$$
$$c = 16.27 \text{ km}$$

4.



$$a^2 + 7.8^2 = 14.82^2$$
$$a = \sqrt{219.6324 - 60.84}$$
$$a = 12.6 \text{ cm}$$

5.



$$18.4^2 + b^2 = 24.38^2$$
$$b = \sqrt{594.3844 - 338.56}$$
$$b = 16 \text{ km}$$

6.



$$10.5^2 + 24^2 = c^2$$
$$c = \sqrt{110.25 + 576}$$
$$c = 26.2 \text{ mi}$$