

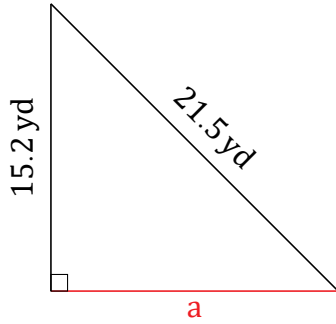
Pythagorean Theorem (B)

Name: _____

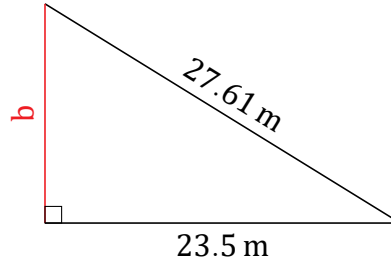
Date: _____

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

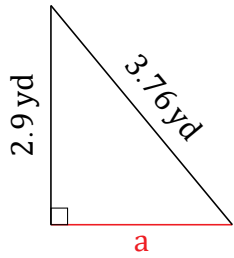
1.



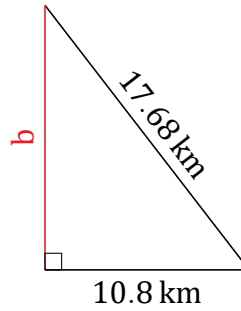
2.



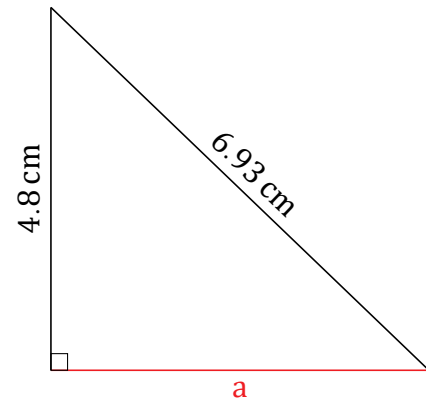
3.



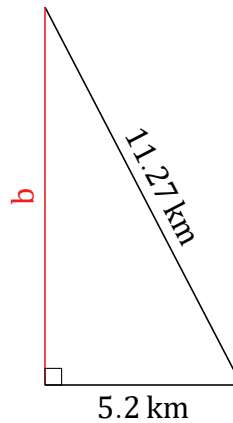
4.



5.



6.



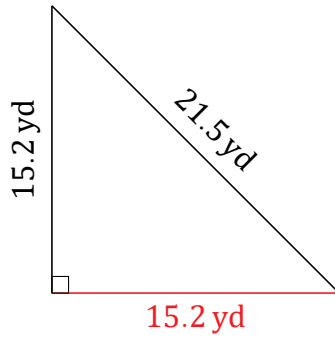
Pythagorean Theorem (B) Answers

Name: _____

Date: _____

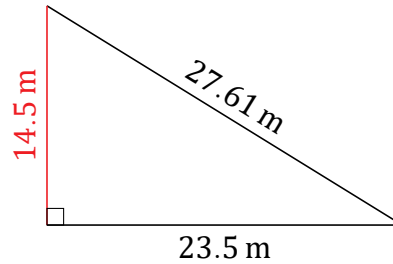
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



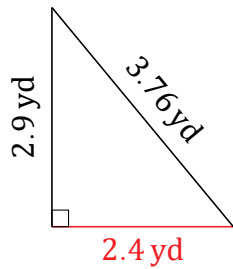
$$a^2 + 15.2^2 = 21.5^2$$
$$a = \sqrt{462.25 - 231.04}$$
$$a = 15.2 \text{ yd}$$

2.



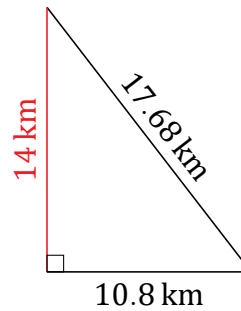
$$23.5^2 + b^2 = 27.61^2$$
$$b = \sqrt{762.3121 - 552.25}$$
$$b = 14.5 \text{ m}$$

3.



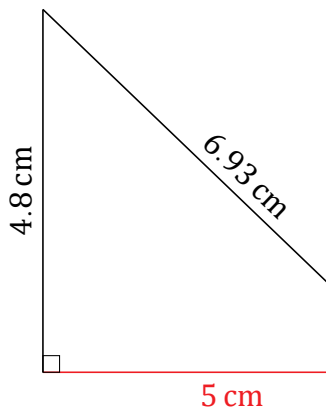
$$a^2 + 2.9^2 = 3.76^2$$
$$a = \sqrt{14.1376 - 8.41}$$
$$a = 2.4 \text{ yd}$$

4.



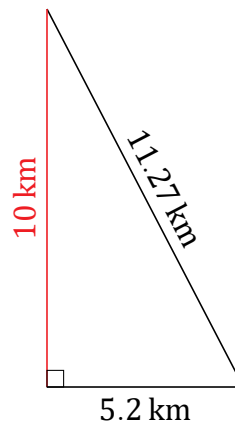
$$10.8^2 + b^2 = 17.68^2$$
$$b = \sqrt{312.5824 - 116.64}$$
$$b = 14 \text{ km}$$

5.



$$a^2 + 4.8^2 = 6.93^2$$
$$a = \sqrt{48.0249 - 23.04}$$
$$a = 5 \text{ cm}$$

6.



$$5.2^2 + b^2 = 11.27^2$$
$$b = \sqrt{127.0129 - 27.04}$$
$$b = 10 \text{ km}$$