

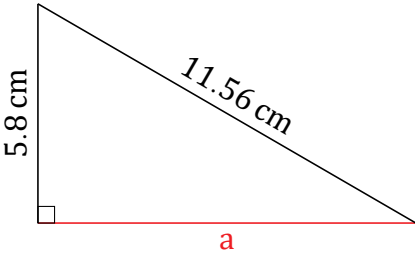
Pythagorean Theorem (J)

Name: _____

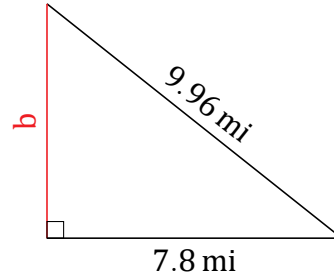
Date: _____

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

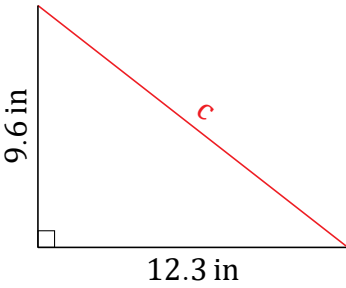
1.



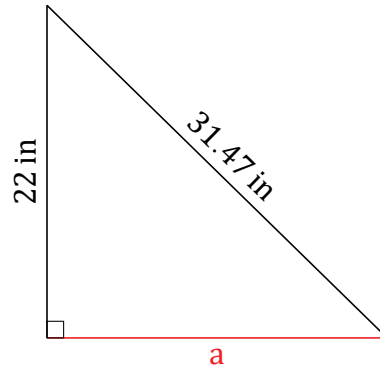
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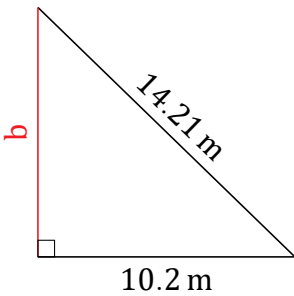
3.



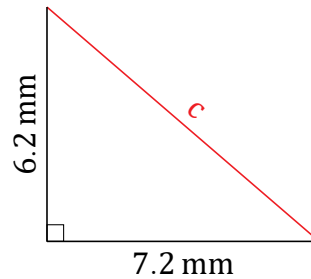
4.



5.



6.



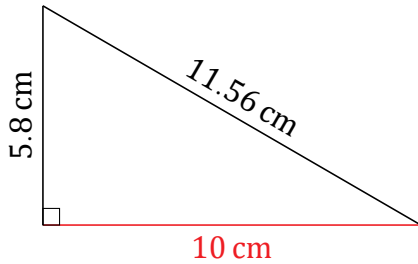
Pythagorean Theorem (J) Answers

Name: _____

Date: _____

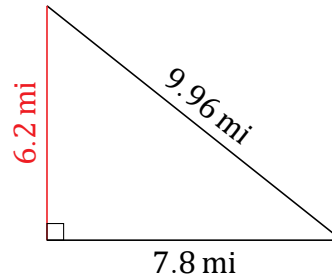
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



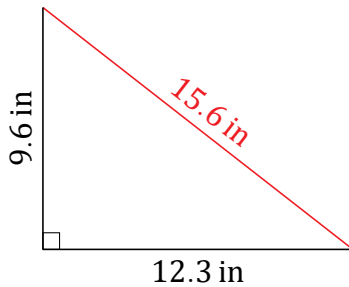
$$a^2 + 5.8^2 = 11.56^2$$
$$a = \sqrt{133.6336 - 33.64}$$
$$a = 10 \text{ cm}$$

2.



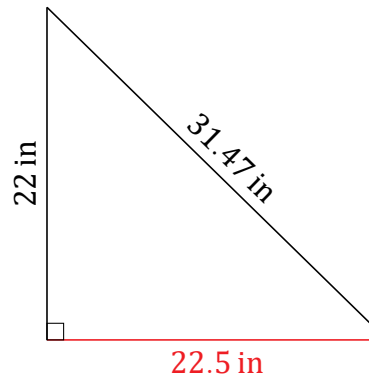
$$7.8^2 + b^2 = 9.96^2$$
$$b = \sqrt{99.2016 - 60.84}$$
$$b = 6.2 \text{ mi}$$

3.



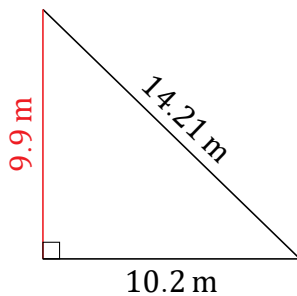
$$12.3^2 + 9.6^2 = c^2$$
$$c = \sqrt{151.29 + 92.16}$$
$$c = 15.6 \text{ in}$$

4.



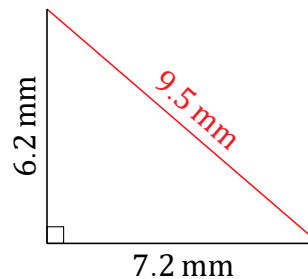
$$a^2 + 22^2 = 31.47^2$$
$$a = \sqrt{990.3609 - 484}$$
$$a = 22.5 \text{ in}$$

5.



$$10.2^2 + b^2 = 14.21^2$$
$$b = \sqrt{201.9241 - 104.04}$$
$$b = 9.9 \text{ m}$$

6.



$$7.2^2 + 6.2^2 = c^2$$
$$c = \sqrt{51.84 + 38.44}$$
$$c = 9.5 \text{ mm}$$