

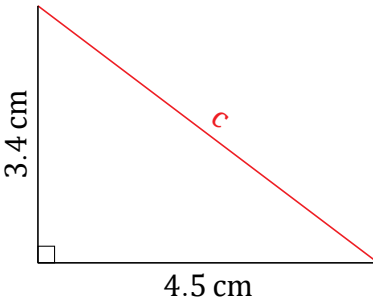
Pythagorean Theorem (A)

Name: _____

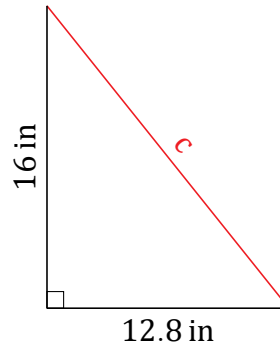
Date: _____

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

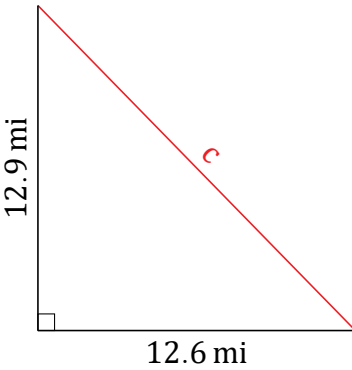
1.



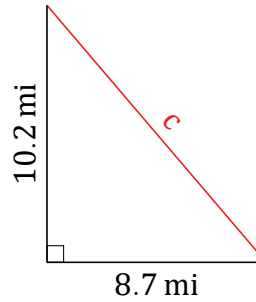
2.



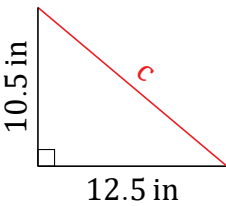
3.



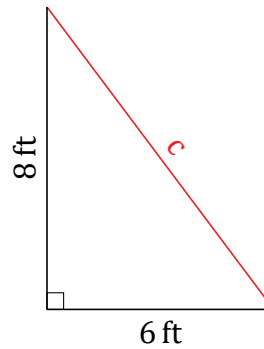
4.



5.



6.



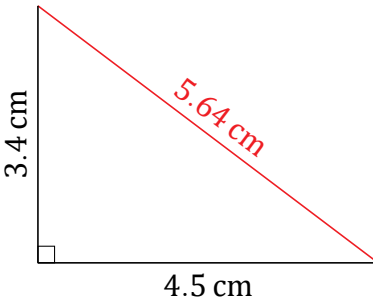
Pythagorean Theorem (A) Answers

Name: _____

Date: _____

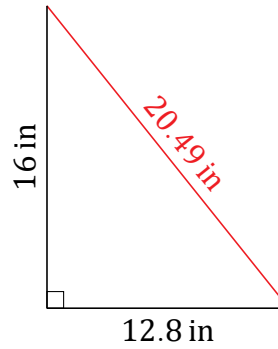
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



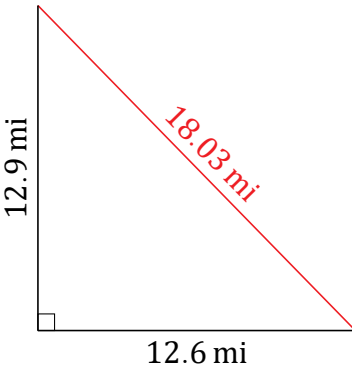
$$4.5^2 + 3.4^2 = c^2$$
$$c = \sqrt{20.25 + 11.56}$$
$$c = 5.64 \text{ cm}$$

2.



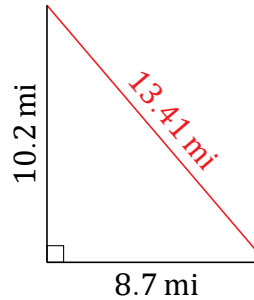
$$12.8^2 + 16^2 = c^2$$
$$c = \sqrt{163.84 + 256}$$
$$c = 20.49 \text{ in}$$

3.



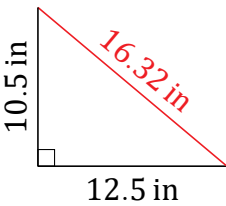
$$12.6^2 + 12.9^2 = c^2$$
$$c = \sqrt{158.76 + 166.41}$$
$$c = 18.03 \text{ mi}$$

4.



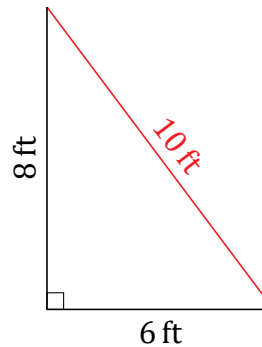
$$8.7^2 + 10.2^2 = c^2$$
$$c = \sqrt{75.69 + 104.04}$$
$$c = 13.41 \text{ mi}$$

5.



$$12.5^2 + 10.5^2 = c^2$$
$$c = \sqrt{156.25 + 110.25}$$
$$c = 16.32 \text{ in}$$

6.



$$6^2 + 8^2 = c^2$$
$$c = \sqrt{36 + 64}$$
$$c = 10 \text{ ft}$$

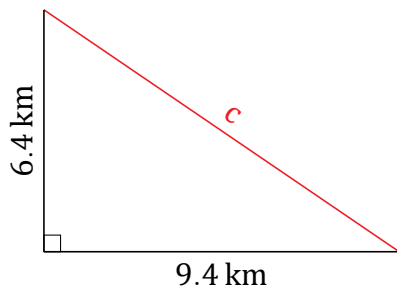
Pythagorean Theorem (B)

Name: _____

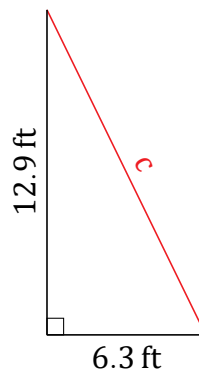
Date: _____

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

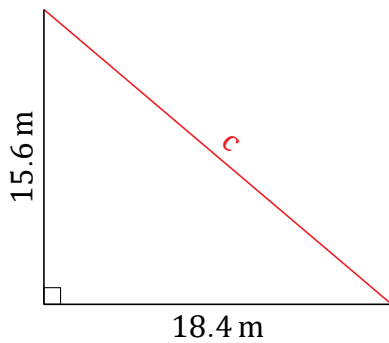
1.



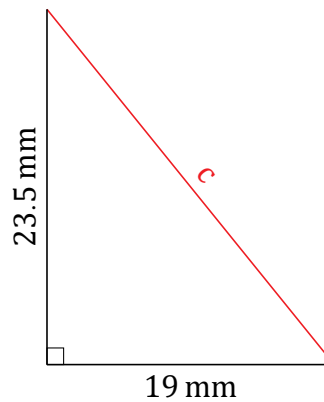
2.



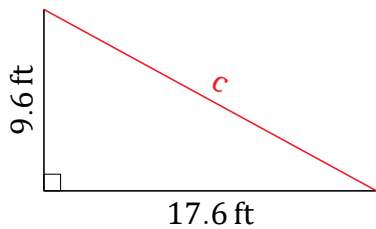
3.



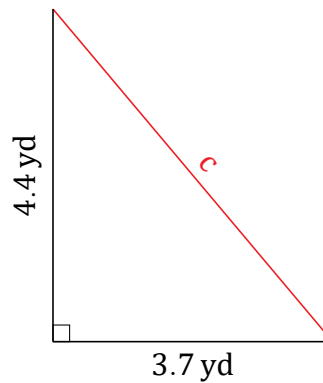
4.



5.



6.



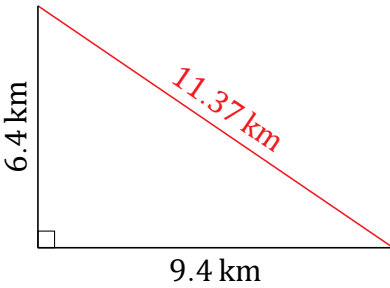
Pythagorean Theorem (B) Answers

Name: _____

Date: _____

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

1.



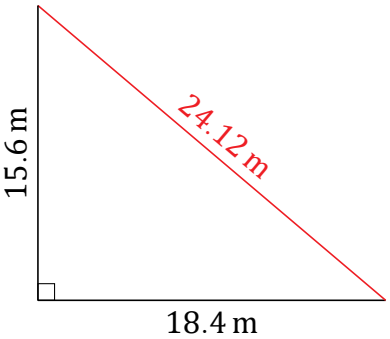
$$\begin{aligned}9.4^2 + 6.4^2 &= c^2 \\c &= \sqrt{88.36 + 40.96} \\c &= 11.37 \text{ km}\end{aligned}$$

2.



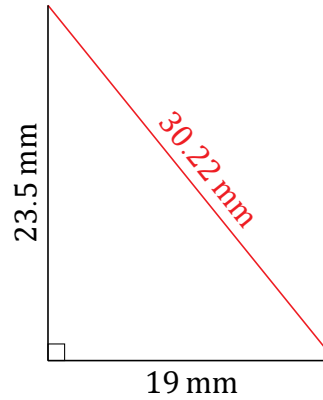
$$\begin{aligned}6.3^2 + 12.9^2 &= c^2 \\c &= \sqrt{39.69 + 166.41} \\c &= 14.36 \text{ ft}\end{aligned}$$

3.



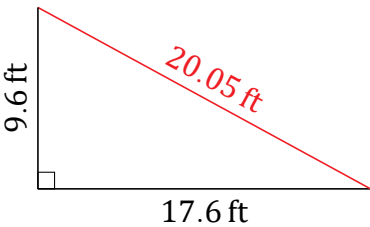
$$\begin{aligned}18.4^2 + 15.6^2 &= c^2 \\c &= \sqrt{338.56 + 243.36} \\c &= 24.12 \text{ m}\end{aligned}$$

4.



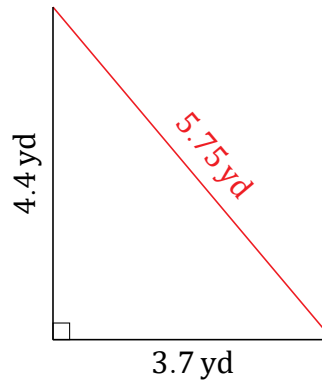
$$\begin{aligned}19^2 + 23.5^2 &= c^2 \\c &= \sqrt{361 + 552.25} \\c &= 30.22 \text{ mm}\end{aligned}$$

5.



$$\begin{aligned}17.6^2 + 9.6^2 &= c^2 \\c &= \sqrt{309.76 + 92.16} \\c &= 20.05 \text{ ft}\end{aligned}$$

6.



$$\begin{aligned}3.7^2 + 4.4^2 &= c^2 \\c &= \sqrt{13.69 + 19.36} \\c &= 5.75 \text{ yd}\end{aligned}$$

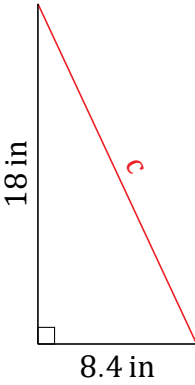
Pythagorean Theorem (C)

Name: _____

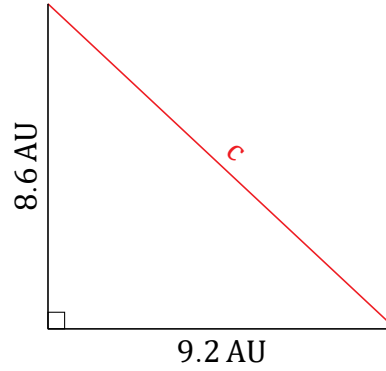
Date: _____

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

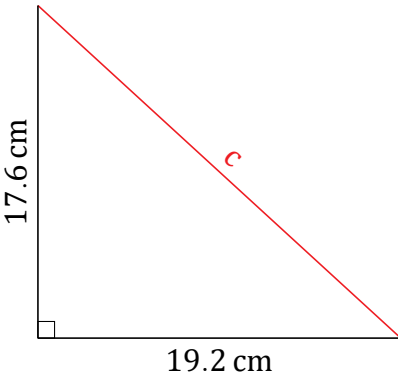
1.



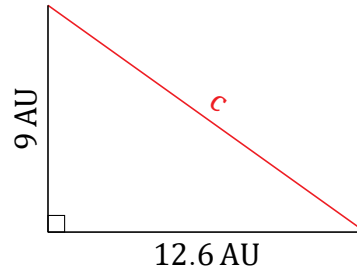
2.



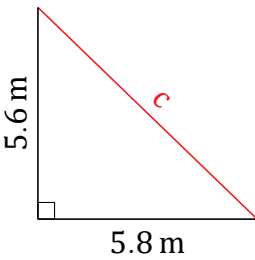
3.



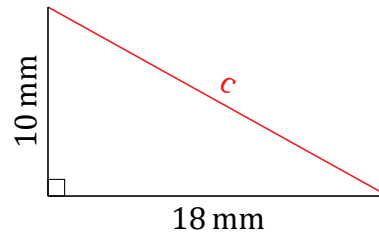
4.



5.



6.



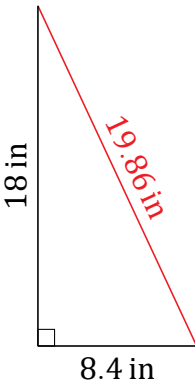
Pythagorean Theorem (C) Answers

Name: _____

Date: _____

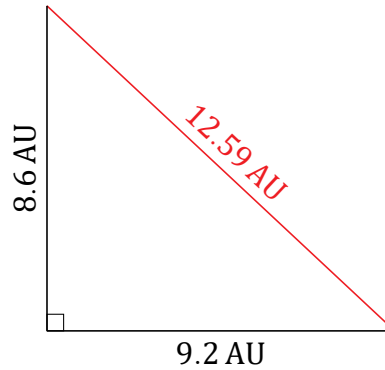
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



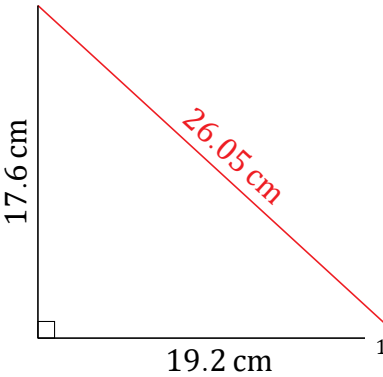
$$8.4^2 + 18^2 = c^2$$
$$c = \sqrt{70.56 + 324}$$
$$c = 19.86 \text{ in}$$

2.



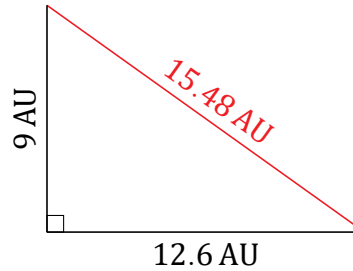
$$9.2^2 + 8.6^2 = c^2$$
$$c = \sqrt{84.64 + 73.96}$$
$$c = 12.59 \text{ AU}$$

3.



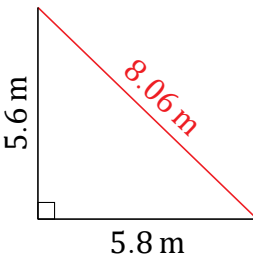
$$19.2^2 + 17.6^2 = c^2$$
$$c = \sqrt{368.64 + 309.76}$$
$$c = 26.05 \text{ cm}$$

4.



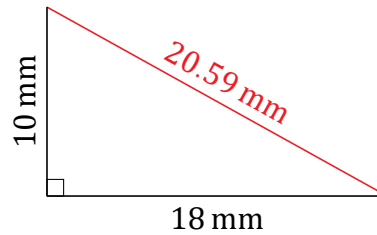
$$12.6^2 + 9^2 = c^2$$
$$c = \sqrt{158.76 + 81}$$
$$c = 15.48 \text{ AU}$$

5.



$$5.8^2 + 5.6^2 = c^2$$
$$c = \sqrt{33.64 + 31.36}$$
$$c = 8.06 \text{ m}$$

6.



$$18^2 + 10^2 = c^2$$
$$c = \sqrt{324 + 100}$$
$$c = 20.59 \text{ mm}$$

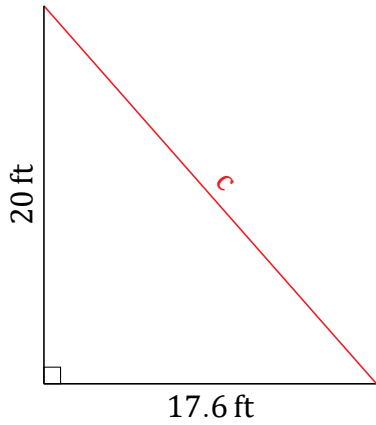
Pythagorean Theorem (D)

Name: _____

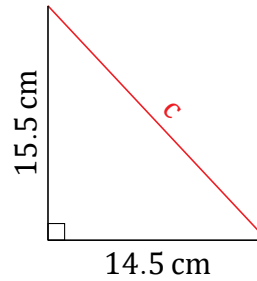
Date: _____

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

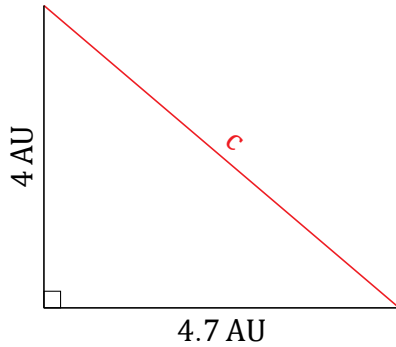
1.



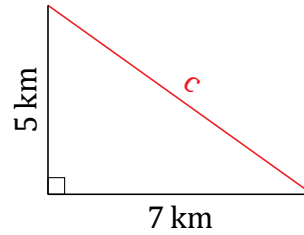
2.



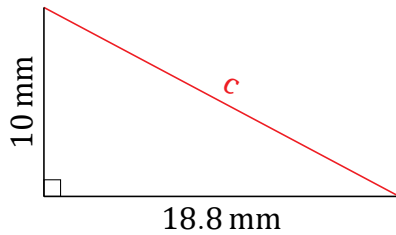
3.



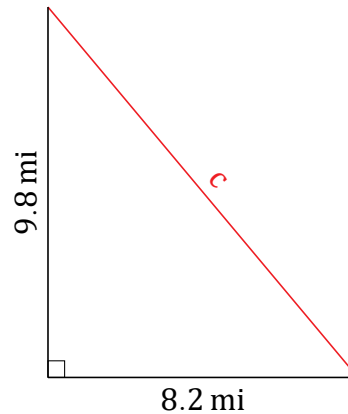
4.



5.



6.



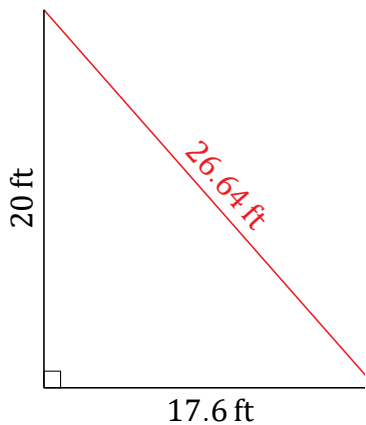
Pythagorean Theorem (D) Answers

Name: _____

Date: _____

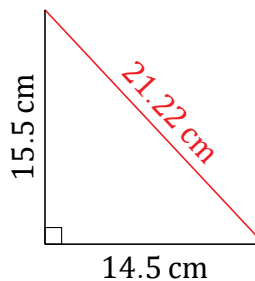
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



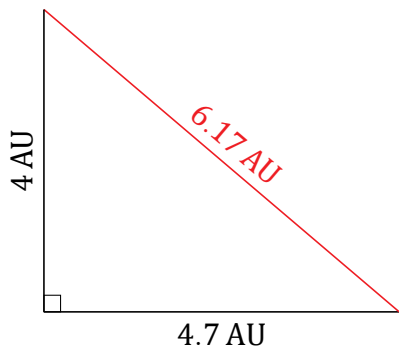
$$17.6^2 + 20^2 = c^2$$
$$c = \sqrt{309.76 + 400}$$
$$c = 26.64 \text{ ft}$$

2.



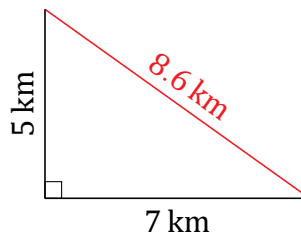
$$14.5^2 + 15.5^2 = c^2$$
$$c = \sqrt{210.25 + 240.25}$$
$$c = 21.22 \text{ cm}$$

3.



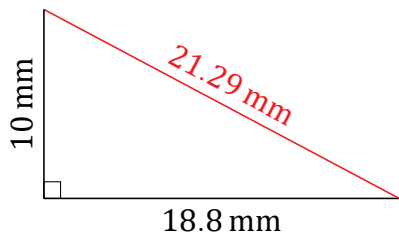
$$4.7^2 + 4^2 = c^2$$
$$c = \sqrt{22.09 + 16}$$
$$c = 6.17 \text{ AU}$$

4.



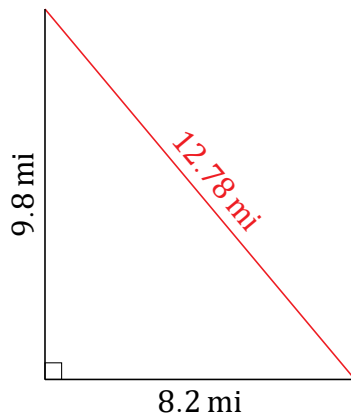
$$7^2 + 5^2 = c^2$$
$$c = \sqrt{49 + 25}$$
$$c = 8.6 \text{ km}$$

5.



$$18.8^2 + 10^2 = c^2$$
$$c = \sqrt{353.44 + 100}$$
$$c = 21.29 \text{ mm}$$

6.



$$8.2^2 + 9.8^2 = c^2$$
$$c = \sqrt{67.24 + 96.04}$$
$$c = 12.78 \text{ mi}$$

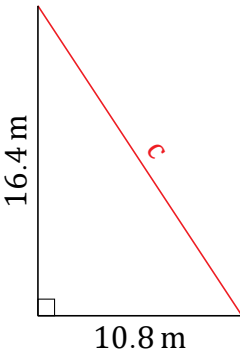
Pythagorean Theorem (E)

Name: _____

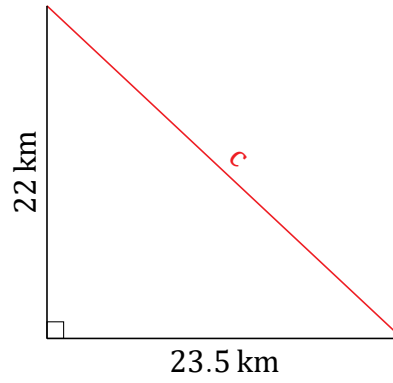
Date: _____

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

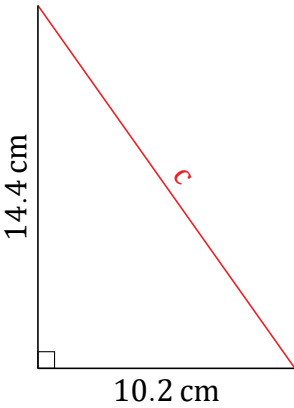
1.



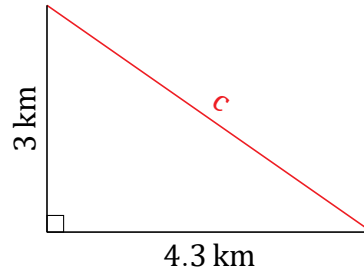
2.



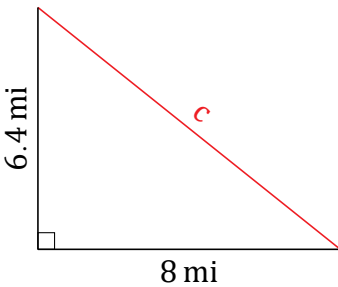
3.



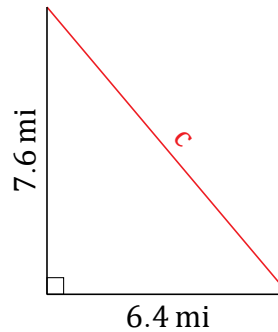
4.



5.



6.



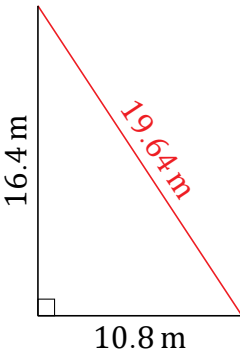
Pythagorean Theorem (E) Answers

Name: _____

Date: _____

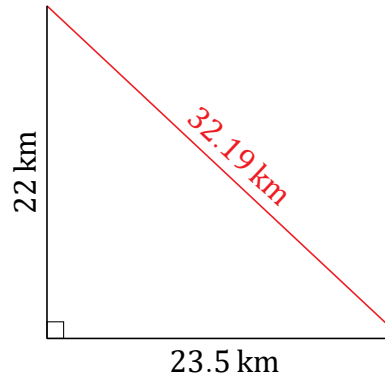
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



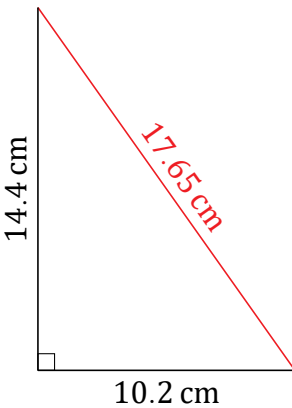
$$10.8^2 + 16.4^2 = c^2$$
$$c = \sqrt{116.64 + 268.96}$$
$$c = 19.64 \text{ m}$$

2.



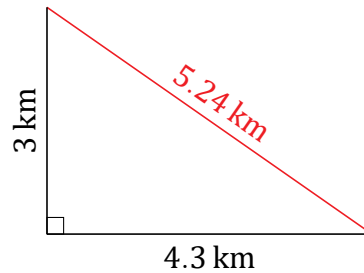
$$23.5^2 + 22^2 = c^2$$
$$c = \sqrt{552.25 + 484}$$
$$c = 32.19 \text{ km}$$

3.



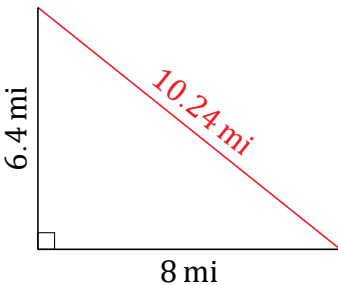
$$10.2^2 + 14.4^2 = c^2$$
$$c = \sqrt{104.04 + 207.36}$$
$$c = 17.65 \text{ cm}$$

4.



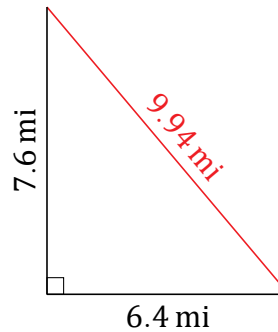
$$4.3^2 + 3^2 = c^2$$
$$c = \sqrt{18.49 + 9}$$
$$c = 5.24 \text{ km}$$

5.



$$8^2 + 6.4^2 = c^2$$
$$c = \sqrt{64 + 40.96}$$
$$c = 10.24 \text{ mi}$$

6.



$$6.4^2 + 7.6^2 = c^2$$
$$c = \sqrt{40.96 + 57.76}$$
$$c = 9.94 \text{ mi}$$

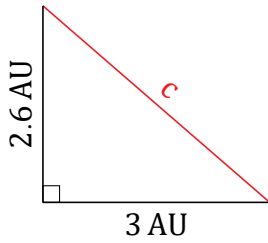
Pythagorean Theorem (F)

Name: _____

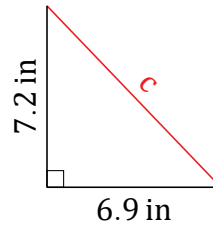
Date: _____

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

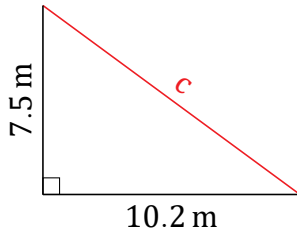
1.



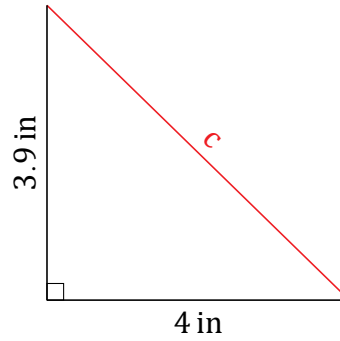
2.



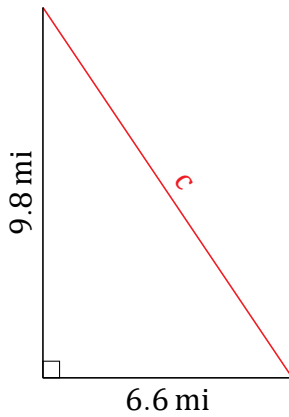
3.



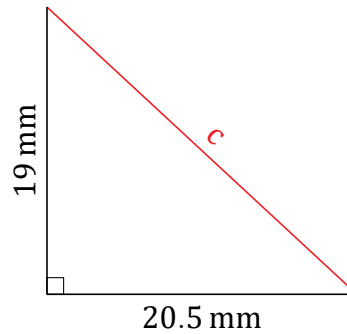
4.



5.



6.



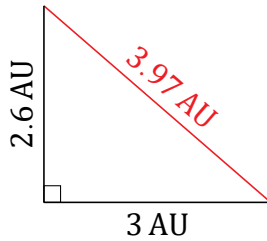
Pythagorean Theorem (F) Answers

Name: _____

Date: _____

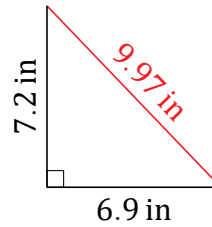
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



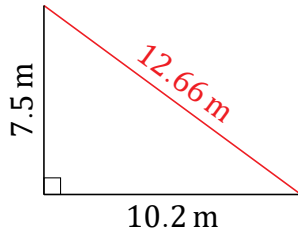
$$\begin{aligned}3^2 + 2.6^2 &= c^2 \\c &= \sqrt{9 + 6.76} \\c &= 3.97 \text{ AU}\end{aligned}$$

2.



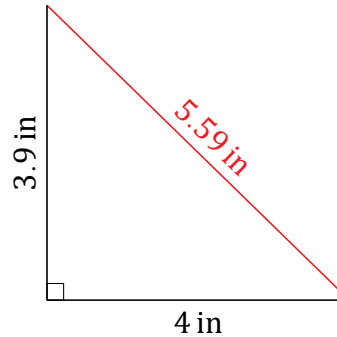
$$\begin{aligned}6.9^2 + 7.2^2 &= c^2 \\c &= \sqrt{47.61 + 51.84} \\c &= 9.97 \text{ in}\end{aligned}$$

3.



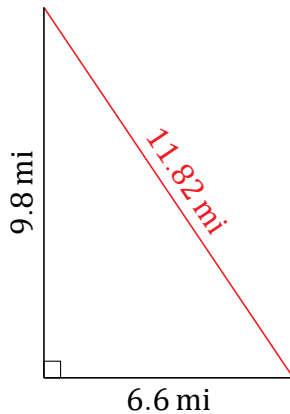
$$\begin{aligned}10.2^2 + 7.5^2 &= c^2 \\c &= \sqrt{104.04 + 56.25} \\c &= 12.66 \text{ m}\end{aligned}$$

4.



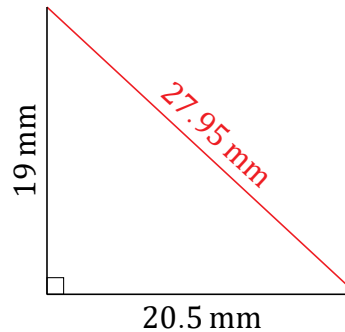
$$\begin{aligned}4^2 + 3.9^2 &= c^2 \\c &= \sqrt{16 + 15.21} \\c &= 5.59 \text{ in}\end{aligned}$$

5.



$$\begin{aligned}6.6^2 + 9.8^2 &= c^2 \\c &= \sqrt{43.56 + 96.04} \\c &= 11.82 \text{ mi}\end{aligned}$$

6.



$$\begin{aligned}20.5^2 + 19^2 &= c^2 \\c &= \sqrt{420.25 + 361} \\c &= 27.95 \text{ mm}\end{aligned}$$

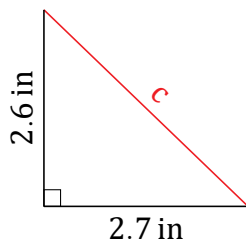
Pythagorean Theorem (G)

Name: _____

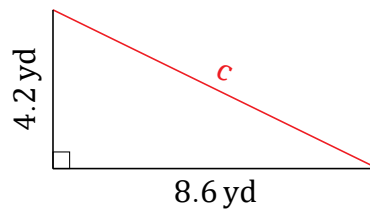
Date: _____

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

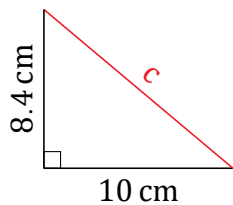
1.



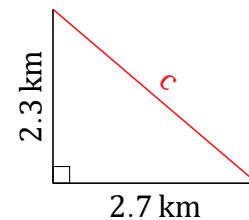
2.



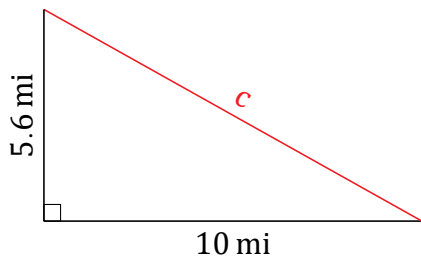
3.



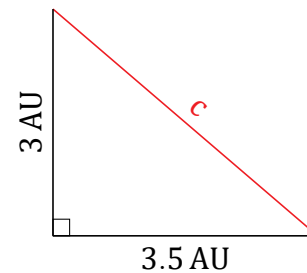
4.



5.



6.



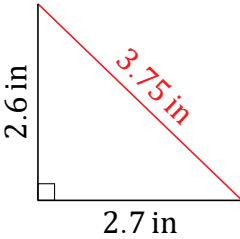
Pythagorean Theorem (G) Answers

Name: _____

Date: _____

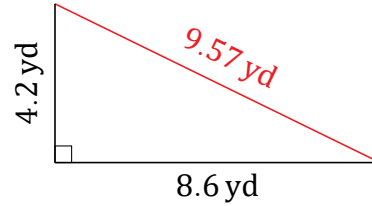
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



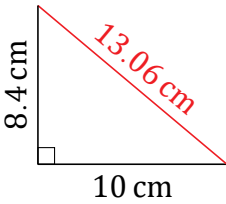
$$\begin{aligned}2.7^2 + 2.6^2 &= c^2 \\c &= \sqrt{7.29 + 6.76} \\c &= 3.75 \text{ in}\end{aligned}$$

2.



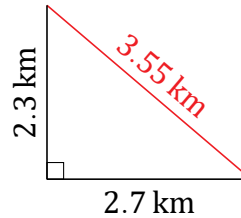
$$\begin{aligned}8.6^2 + 4.2^2 &= c^2 \\c &= \sqrt{73.96 + 17.64} \\c &= 9.57 \text{ yd}\end{aligned}$$

3.



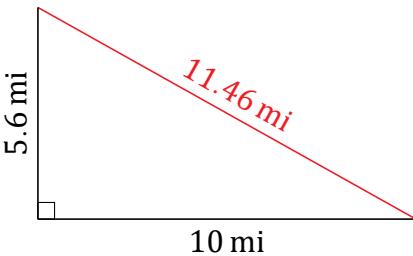
$$\begin{aligned}10^2 + 8.4^2 &= c^2 \\c &= \sqrt{100 + 70.56} \\c &= 13.06 \text{ cm}\end{aligned}$$

4.



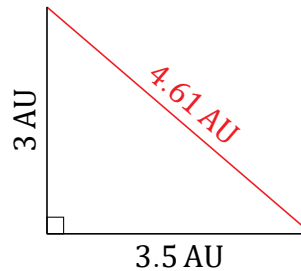
$$\begin{aligned}2.7^2 + 2.3^2 &= c^2 \\c &= \sqrt{7.29 + 5.29} \\c &= 3.55 \text{ km}\end{aligned}$$

5.



$$\begin{aligned}10^2 + 5.6^2 &= c^2 \\c &= \sqrt{100 + 31.36} \\c &= 11.46 \text{ mi}\end{aligned}$$

6.



$$\begin{aligned}3.5^2 + 3^2 &= c^2 \\c &= \sqrt{12.25 + 9} \\c &= 4.61 \text{ AU}\end{aligned}$$

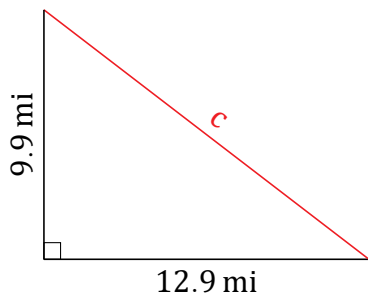
Pythagorean Theorem (H)

Name: _____

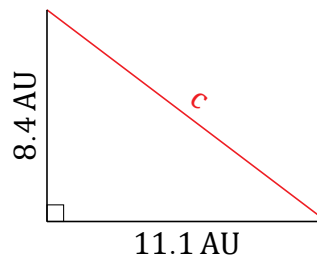
Date: _____

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

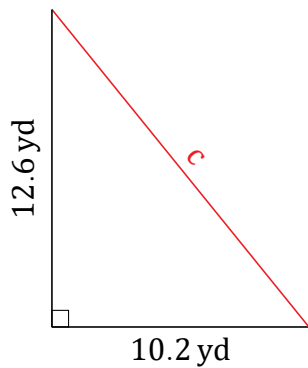
1.



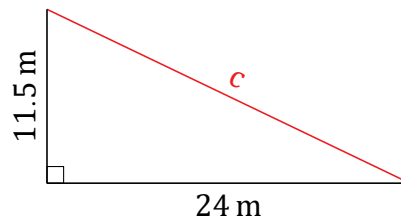
2.



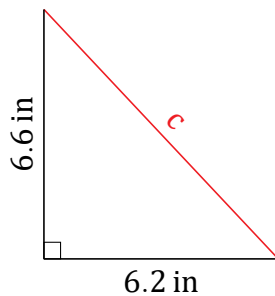
3.



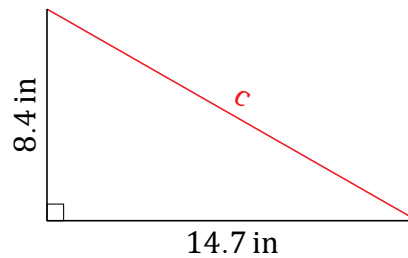
4.



5.



6.



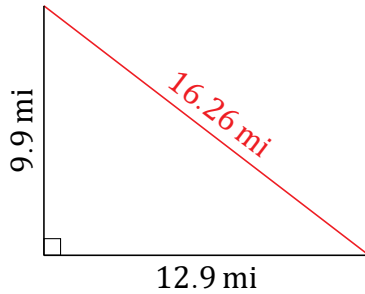
Pythagorean Theorem (H) Answers

Name: _____

Date: _____

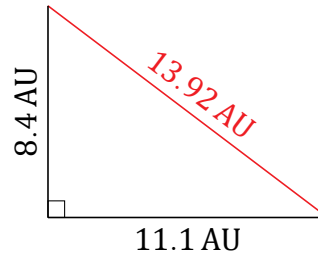
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



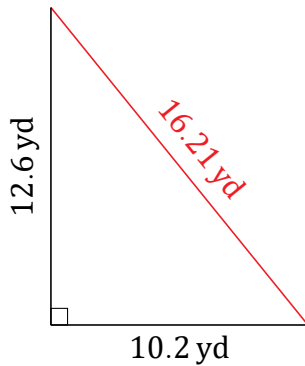
$$12.9^2 + 9.9^2 = c^2$$
$$c = \sqrt{166.41 + 98.01}$$
$$c = 16.26 \text{ mi}$$

2.



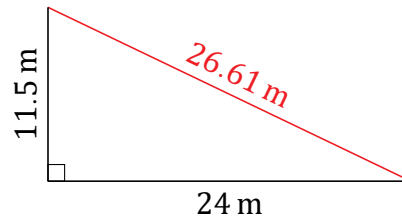
$$11.1^2 + 8.4^2 = c^2$$
$$c = \sqrt{123.21 + 70.56}$$
$$c = 13.92 \text{ AU}$$

3.



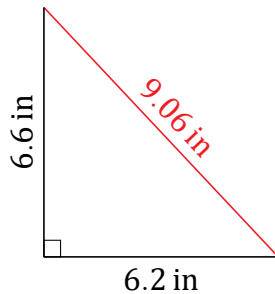
$$10.2^2 + 12.6^2 = c^2$$
$$c = \sqrt{104.04 + 158.76}$$
$$c = 16.21 \text{ yd}$$

4.



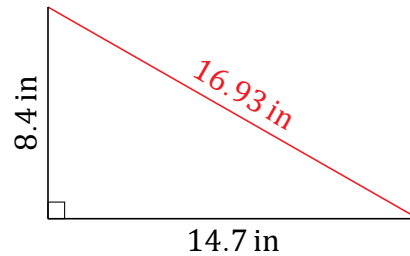
$$24^2 + 11.5^2 = c^2$$
$$c = \sqrt{576 + 132.25}$$
$$c = 26.61 \text{ m}$$

5.



$$6.2^2 + 6.6^2 = c^2$$
$$c = \sqrt{38.44 + 43.56}$$
$$c = 9.06 \text{ in}$$

6.



$$14.7^2 + 8.4^2 = c^2$$
$$c = \sqrt{216.09 + 70.56}$$
$$c = 16.93 \text{ in}$$

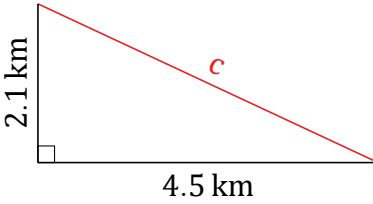
Pythagorean Theorem (I)

Name: _____

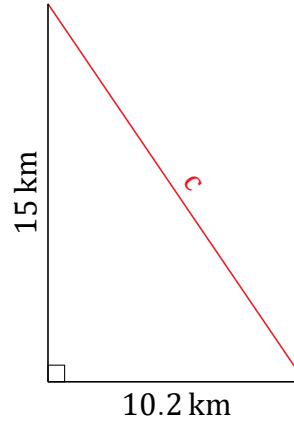
Date: _____

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

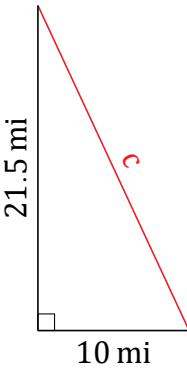
1.



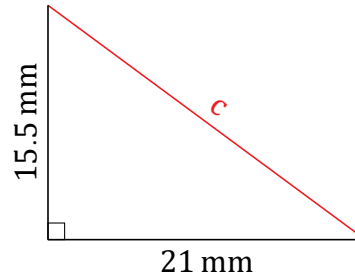
2.



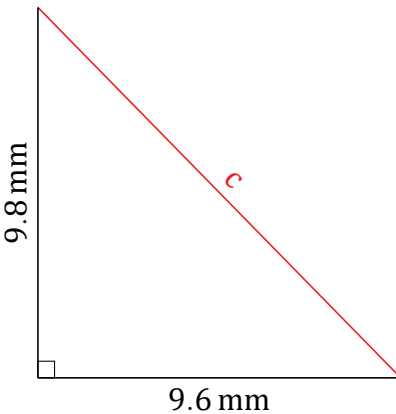
3.



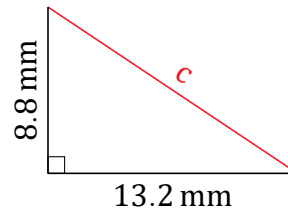
4.



5.



6.



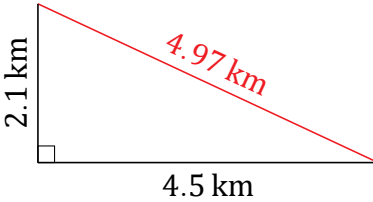
Pythagorean Theorem (I) Answers

Name: _____

Date: _____

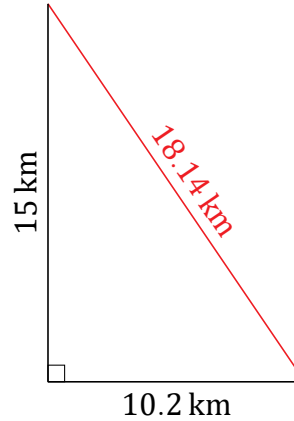
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



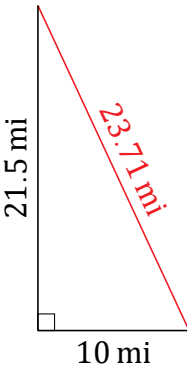
$$4.5^2 + 2.1^2 = c^2$$
$$c = \sqrt{20.25 + 4.41}$$
$$c = 4.97 \text{ km}$$

2.



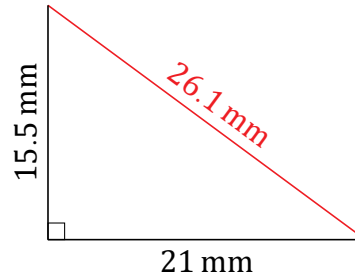
$$10.2^2 + 15^2 = c^2$$
$$c = \sqrt{104.04 + 225}$$
$$c = 18.14 \text{ km}$$

3.



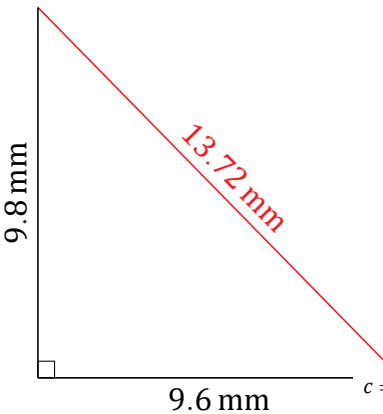
$$10^2 + 21.5^2 = c^2$$
$$c = \sqrt{100 + 462.25}$$
$$c = 23.71 \text{ mi}$$

4.



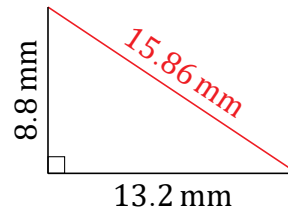
$$21^2 + 15.5^2 = c^2$$
$$c = \sqrt{441 + 240.25}$$
$$c = 26.1 \text{ mm}$$

5.



$$9.6^2 + 9.8^2 = c^2$$
$$c = \sqrt{92.16 + 96.04}$$
$$c = 13.72 \text{ mm}$$

6.



$$13.2^2 + 8.8^2 = c^2$$
$$c = \sqrt{174.24 + 77.44}$$
$$c = 15.86 \text{ mm}$$

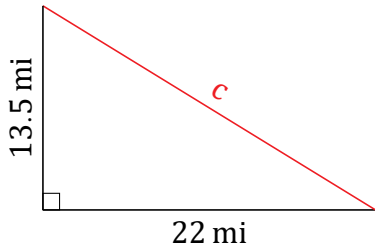
Pythagorean Theorem (J)

Name: _____

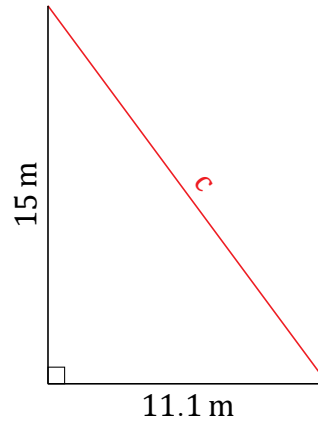
Date: _____

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

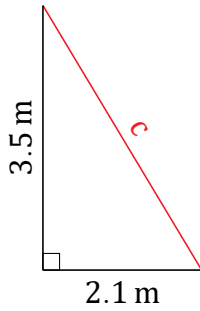
1.



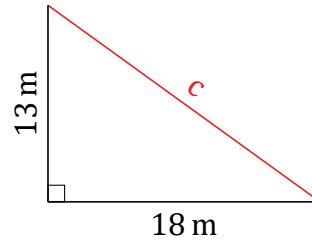
2.



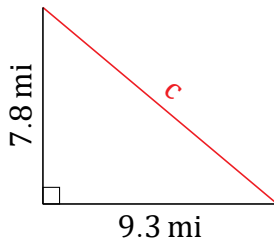
3.



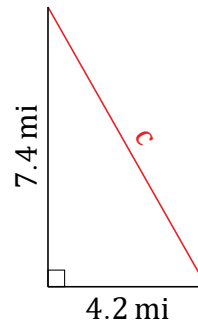
4.



5.



6.



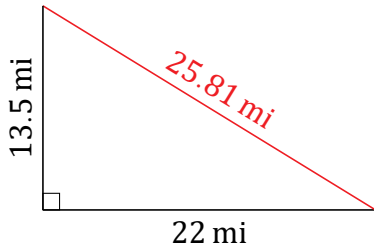
Pythagorean Theorem (J) Answers

Name: _____

Date: _____

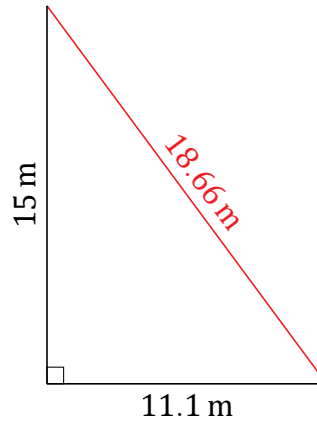
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



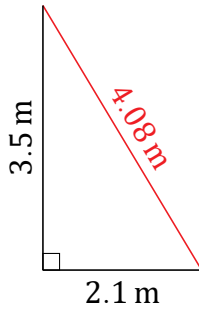
$$22^2 + 13.5^2 = c^2$$
$$c = \sqrt{484 + 182.25}$$
$$c = 25.81 \text{ mi}$$

2.



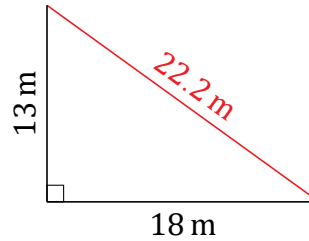
$$11.1^2 + 15^2 = c^2$$
$$c = \sqrt{123.21 + 225}$$
$$c = 18.66 \text{ m}$$

3.



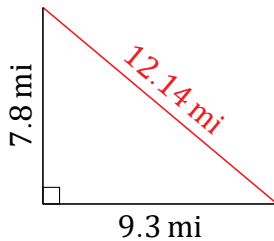
$$2.1^2 + 3.5^2 = c^2$$
$$c = \sqrt{4.41 + 12.25}$$
$$c = 4.08 \text{ m}$$

4.



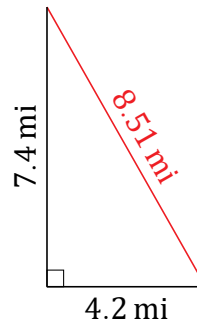
$$18^2 + 13^2 = c^2$$
$$c = \sqrt{324 + 169}$$
$$c = 22.2 \text{ m}$$

5.



$$9.3^2 + 7.8^2 = c^2$$
$$c = \sqrt{86.49 + 60.84}$$
$$c = 12.14 \text{ mi}$$

6.



$$4.2^2 + 7.4^2 = c^2$$
$$c = \sqrt{17.64 + 54.76}$$
$$c = 8.51 \text{ mi}$$