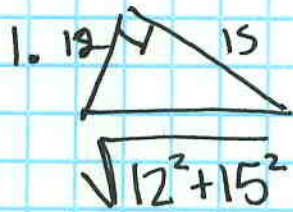
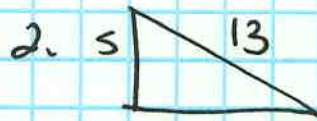
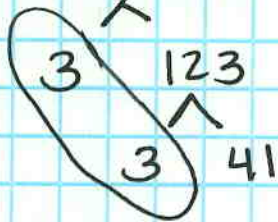


481 1-14



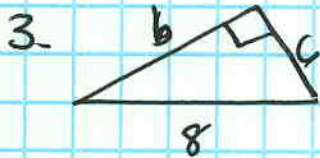
$$= \sqrt{12^2 + 15^2}$$



$$a^2 + b^2 = c^2$$

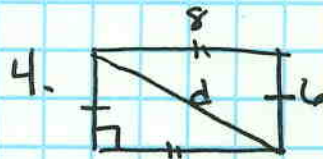
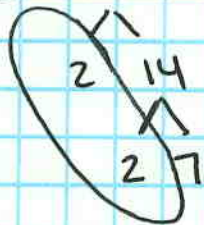
$$\begin{aligned} 5^2 + b^2 &= 13^2 \\ - 5^2 &\quad - 5^2 \\ \hline b^2 &= 169 - 25 \\ &= 144 \end{aligned}$$

$$b = 12$$

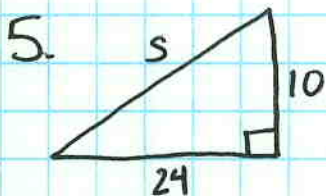


$$\begin{aligned} a^2 + b^2 &= c^2 \\ 6^2 + b^2 &= 8^2 \\ - 6^2 &\quad - 6^2 \\ \hline b^2 &= 64 - 36 \\ b^2 &= 28 \end{aligned}$$

$$b = \sqrt{28} = 2\sqrt{7}$$



$$\begin{aligned} a^2 + b^2 &= d^2 \\ 8^2 + 6^2 &= d^2 \\ 64 + 36 &= d^2 \\ 100 &= d^2 \\ 10 &= d \end{aligned}$$



$$a^2 + b^2 = s^2$$

$$10^2 + 24^2 = s^2$$

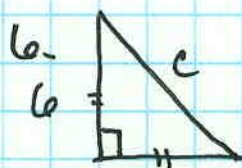
$$100 + 576 = s^2$$

$$676 = s^2$$

$$\sqrt{676} = s$$

$$\begin{array}{r} 2 \ 338 \\ \wedge \\ 2 \ 169 \\ \wedge \\ \textcircled{13 \ 13} \end{array}$$

$$s = 26$$



$$a^2 + b^2 = c^2$$

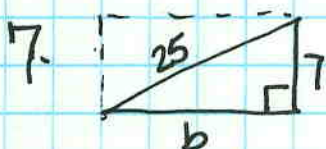
$$6^2 + 6^2 = c^2$$

$$36 + 36 = c^2$$

$$72 = c^2$$

$$\sqrt{72} = c$$

$$\begin{array}{r} 2 \ 36 \\ \wedge \\ 2 \ 18 \\ \wedge \\ 2 \ 9 \\ \wedge \\ \textcircled{3 \ 3} \end{array} \quad c = 2 \cdot 3\sqrt{2} = 6\sqrt{2}$$



$$a^2 + b^2 = c^2$$

$$7^2 + b^2 = 25^2$$

$$49 + b^2 = 625$$

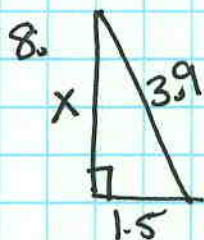
$$\begin{array}{r} -49 \\ -49 \end{array}$$

$$b^2 = 576$$

$$b = \sqrt{576}$$

$$\begin{array}{r} 2 \ 288 \\ \wedge \\ 2 \ 144 \\ \wedge \\ \textcircled{12 \ 12} \end{array}$$

$$b = 24$$



$$a^2 + b^2 = c^2$$
~~$$x^2 + 3.0 = 3.9^2$$~~

$$1.5^2 + x^2 = 3.9^2$$

$$2.25 + x^2 = 15.21$$

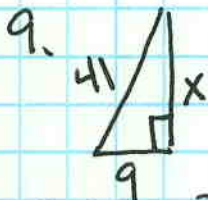
$$\begin{array}{r} -2.25 \\ -2.25 \end{array}$$

$$x^2 = 12.96$$

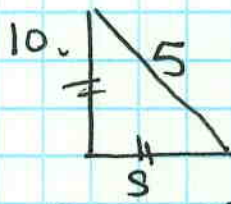
$$\begin{array}{r} 2 \ 6.48 \\ \wedge \\ 2 \ 3.24 \\ \wedge \\ 2 \ 1.62 \\ \wedge \\ 2 \ .81 \\ \wedge \\ \textcircled{.9 \ .9} \end{array}$$

$$x = 2 \cdot .9$$

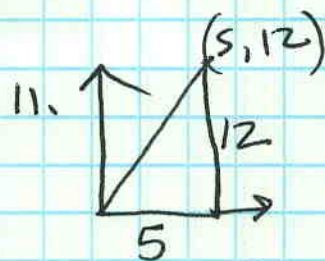
$$x = 3.6$$



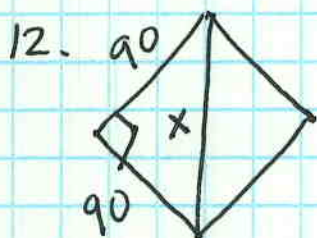
$$\begin{aligned}
 a^2 + b^2 &= c^2 \\
 9^2 + b^2 &= 41^2 \\
 81 + b^2 &= 1681 \\
 b^2 &= 1600 \\
 b &= 40
 \end{aligned}$$



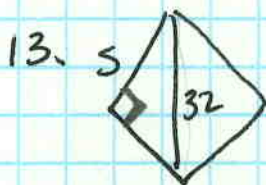
$$\begin{aligned}
 s^2 + s^2 &= 5^2 \\
 2s^2 &= 25 \\
 s^2 &= \frac{25}{2} \\
 s &= \sqrt{\frac{25}{2}} \\
 &= \frac{5}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} \\
 &= \frac{5\sqrt{2}}{2}
 \end{aligned}$$



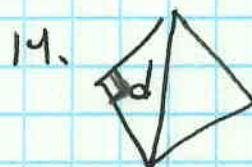
$$\begin{aligned}
 a^2 + b^2 &= c^2 \\
 5^2 + 12^2 &= c^2 \\
 25 + 144 &= c^2 \\
 169 &= c^2 \\
 c &= 13
 \end{aligned}$$



$$\begin{aligned}
 a^2 + b^2 &= c^2 \\
 90^2 + 90^2 &= c^2 \\
 8100 + 8100 &= c^2 \\
 16200 &= c^2 \\
 c &= \sqrt{16200} \\
 &= 90\sqrt{2} \\
 &= 127.28 \text{ feet}
 \end{aligned}$$

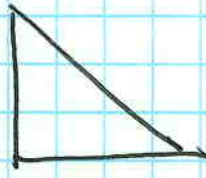


$$\begin{aligned}
 A &= s^2 \\
 32^2 &= s^2 + s^2 \\
 \frac{1024}{2} &= \frac{2s^2}{2} \\
 512 &= s^2 \\
 A &= 512
 \end{aligned}$$



$$\begin{aligned}
 A &= 64 = s^2 \\
 s &= 8 \\
 8^2 + 8^2 &= d^2 \\
 64 + 64 &= d^2 \\
 2 \cdot 64 &= d^2 \\
 d &= 8\sqrt{2}
 \end{aligned}$$

15.



3, 4, 5

$$x^2 + y^2 = z^2$$

$$1^2 + 2^2 = 3^2$$

$$1 + 4 = 9 \quad \times$$

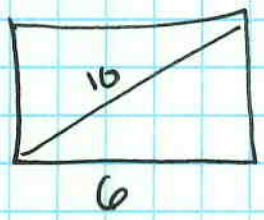
$$2^2 + 3^2 = 4^2$$

$$4 + 9 = 16 \quad \times$$

$$3^2 + 4^2 = 5^2$$

$$9 + 16 = 25 \quad \checkmark$$

16.



$$a^2 + b^2 = c^2$$

$$6^2 + b^2 = 10^2$$

$$36 + b^2 = 100$$

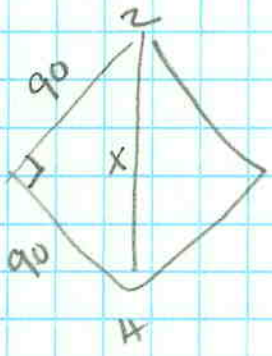
$$b^2 = 64$$

$$b = 8$$

$$P = 6 + 6 + 8 + 8$$

$$= 12 + 16$$

$$= 28 \text{ m}$$



$$s^2 + s^2 = x^2$$

$$90^2 + 90^2 = x^2$$

$$16,200 = x^2$$

$$90\sqrt{2}$$

$$127.28$$