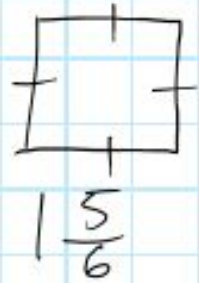


\* Find the area and the perimeter



Perimeter

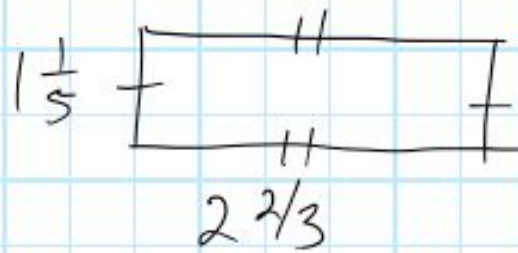
$$\text{Side} = 1\frac{5}{6} = \frac{11}{6}$$

$$\text{Perimeter} = \frac{11}{6} \cdot 4 = \frac{44}{6} \div 2$$

$$= \frac{22}{3} = 7\frac{1}{3}$$

Area

$$= \frac{11}{6} \cdot \frac{11}{6} = \frac{121}{36} = 3\frac{13}{36}$$



Area

$$= 1\frac{1}{5} \cdot 2\frac{2}{3} = \frac{6}{5} \cdot \frac{8}{3} = \frac{48}{15}$$

$$= 3\frac{2}{3} = 3\frac{1}{5} = \frac{16}{5} \quad 15 \overline{) \begin{array}{r} 48 \\ 45 \\ \hline 3 \end{array}}$$

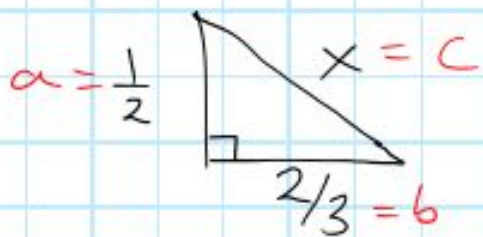
Perimeter

$$\frac{6}{5} \cdot 2 + \frac{8}{3} \cdot 2$$

$$\frac{12 \cdot 3}{5 \cdot 3} + \frac{16 \cdot 5}{3 \cdot 5} = \frac{36}{15} + \frac{80}{15}$$

$$= \frac{116}{15} = 7\frac{11}{15}$$

Solve for the missing side



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

$$\left(\frac{1}{2}\right)^2 + \left(\frac{2}{3}\right)^2 = c^2$$

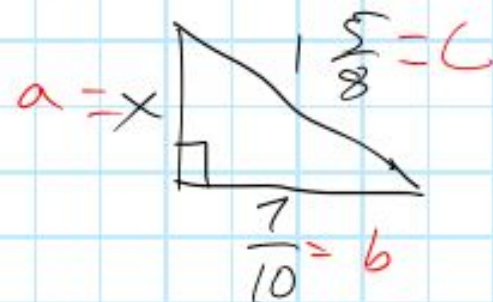
$$\frac{1}{2} \cdot \frac{1}{2} + \frac{2}{3} \cdot \frac{2}{3} = c^2$$

$$\frac{1 \cdot 1}{4 \cdot 4} + \frac{4 \cdot 4}{9 \cdot 9} = c^2$$

$$\frac{1}{36} + \frac{16}{36} = c^2$$

$$\frac{25}{36} = c^2$$

$$\sqrt{\frac{25}{36}} = c = \frac{5}{6}$$



$$a^2 = c^2 - b^2$$

$$a^2 = \left(\frac{13}{8}\right)^2 - \left(\frac{7}{10}\right)^2$$

$$a^2 = \frac{169 \cdot 100}{64 \cdot 100} - \frac{49 \cdot 64}{100 \cdot 64}$$

$$a^2 = \frac{16900}{6400} - \frac{3136}{6400}$$

$$a^2 = \frac{13764}{6400} \Rightarrow a = \sqrt{\frac{13764}{6400}}$$

$$a \approx 2.015$$

$\frac{3}{2} - \frac{1}{2} = \frac{5}{12}$   
 $1 - \frac{5}{12} = \frac{7}{12}$

$\frac{3}{2} \div \frac{3}{2} = \frac{3}{2} \cdot \frac{1}{3} = \frac{1}{2}$

$\frac{3}{2} - \frac{1}{2} = 1 = 3\Delta$   
 $\frac{1}{3} = \Delta$

$\frac{3 \cdot 3}{2 \cdot 3} - \frac{2 \cdot 2}{3 \cdot 2} = \frac{9}{6} - \frac{4}{6} = \frac{5}{6} = 2\Delta$   
 $\frac{5}{6} \div 2 = \frac{5}{12}$

$\heartsuit = \frac{1}{2}$     $\blacksquare = \frac{5}{12}$     $\blacktriangle = \frac{1}{3}$     $\bullet = \frac{1}{12}$

$3x + y = 1$   
 $2y + x = 1 \Rightarrow x = 1 - 2y$   
 $3(1 - 2y) + y = 1$   
 $2\Delta = 1\heartsuit$

$\heartsuit = \frac{2}{5}$     $\blacktriangle = \frac{1}{5}$