

Hey Brother

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Warmup

$$a) \quad \frac{2}{3} + \frac{1}{4}$$

$\left(\begin{array}{l} \times 4 \\ \times 3 \end{array} \right)$

$$= \frac{8}{12} + \frac{3}{12}$$

$$= \frac{11}{12}$$

$$b) \quad 1 \frac{2}{5} + 3 \frac{1}{2}$$

$$= \frac{7}{5} + \frac{7}{2}$$

$$\stackrel{\times 2}{=} \left(\frac{14}{5} + \frac{7}{2} \right) \stackrel{\times 5}{=} \frac{14}{10} + \frac{35}{10}$$

$$= \boxed{\frac{49}{10}}$$

$$\begin{aligned} \text{c) } & (-2) + (-5) \times (-2)^2 + 1 \\ & = (-2) + (-5) \times 4 + 1 \\ & = (-2) + (-20) + 1 \\ & = (-22) + 1 \\ & = \boxed{-21} \end{aligned}$$

$$\text{e) } 14 + (-3) \times (5) + (3+2)^2$$

$$\begin{aligned} \text{d) } & (-2) \times (-3) + (-4) \times (-5) / 2 \\ & = 6 + (-4) \times (-5) / 2 \\ & = 6 + 20 / 2 \\ & = 6 + 10 \\ & = \boxed{16} \end{aligned}$$

$$\text{f) } (-2 + 3 - 4 + 5 \times 2 - 4 \times 2)^2$$

$$\begin{aligned} & = (-2 + 3 - 4 + 10 - 4 \times 2)^2 \\ & = (-2 + 3 - 4 + 10 - 8)^2 \\ & = (1 - 4 + 10 - 8)^2 \\ & = (-3 + 10 - 8)^2 \\ & = (7 - 8)^2 \\ & = (-1)^2 = \boxed{1} \end{aligned}$$

2) MULTIPLYING AND DIVIDING FRACTIONS - Remember to bring to lowest terms

a) $\frac{1}{3} \times (\frac{6}{5})$

b) $2\frac{2}{3} \times 1\frac{1}{4}$

$$\begin{aligned} & 2\frac{2}{3} \times 1\frac{1}{4} \\ &= \frac{8}{3} \times \frac{5}{4} \\ &= \frac{40}{12} \begin{array}{l} \div 4 \\ \div 4 \end{array} \\ &= \boxed{\frac{10}{3}} \end{aligned}$$

2, 3, 5, 10, ...

c) $\frac{4}{5} \times \frac{3}{8}$

d) $\frac{5}{6} \div \frac{2}{3}$

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e) $2/5 \times 4/3 / 2/3$

f) $2\frac{1}{2} / 1\frac{1}{3} \times 4\frac{1}{2}$

$$\begin{aligned}
 & 2\frac{1}{2} \div 1\frac{1}{3} \times 4\frac{1}{2} \\
 & = \frac{5}{2} \div \frac{4}{3} \times \frac{9}{2} \\
 & = \frac{5}{2} \times \frac{3}{4} \times \frac{9}{2} \\
 & = \frac{15}{8} \times \frac{9}{2} = \boxed{\frac{135}{16}}
 \end{aligned}$$

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SUBTRACTING FRACTIONS

b) $3\frac{2}{3} + (1\frac{2}{7})$

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c) $\frac{4}{5} \times \frac{3}{8}$

d) $\frac{5}{6} \div \frac{2}{3}$

$$\begin{aligned} & \frac{5}{6} \div \frac{2}{3} && 2, 3, 5, 10 \\ & = \frac{5}{6} \times \frac{3}{2} \\ & = \frac{15}{12} \div 3 \\ & = \frac{5}{4} \end{aligned}$$

e) $\frac{2}{5} \times \frac{4}{3} \div \frac{2}{3}$

f) $2\frac{1}{2} \div 1\frac{1}{3} \times 4\frac{1}{2}$

c) $(\frac{2}{3}) - (\frac{1}{4})$

d) $(4\frac{1}{2}) + (2\frac{3}{4}) - (3\frac{2}{3})$

$$= \frac{9}{2} + \frac{11}{4} - \frac{11}{3}$$

$$\times 4 \left(= \frac{36}{8} + \frac{22}{8} - \frac{11}{3} \right) \times 2$$

$$= \frac{29}{4} - \frac{11}{3}$$

$$= \frac{87}{12} - \frac{44}{12}$$

$$= \frac{43}{12}$$

$$\div 2 = \frac{58}{8} - \frac{11}{3}$$

e) $(3\frac{2}{3}) - (2\frac{1}{4})$

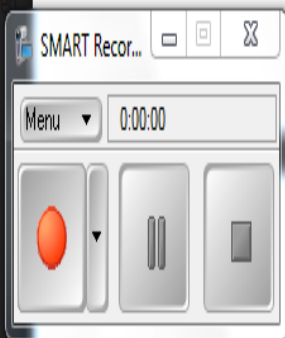
f) $(\frac{5}{12}) + (\frac{1}{6}) + (\frac{1}{3})$

e) $(3\frac{2}{3}) - (2\frac{1}{4})$

f) $(\frac{5}{12}) + (\frac{1}{6}) + (\frac{1}{3})$

$$x_1 \left(= \frac{5}{12} + \frac{2}{12} \right) x_2 + \frac{1}{3}$$

$$x_1 \left(= \frac{7}{12} + \frac{1}{3} \right) y_4 = \frac{11}{12}$$



4) THE BIG QUESTION

a) $(\frac{2}{3}) + (\frac{1}{4}) + (\frac{1}{3})$