

Feb. 12, 2018

Warmup

$$a) \frac{3}{4} \times \frac{4}{7}$$

$$= \frac{12}{28} \begin{matrix} \div 4 \\ \div 4 \end{matrix}$$

$$= \boxed{\frac{3}{7}}$$

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

$$= \frac{5}{2} \times \frac{4}{3}$$

$$= \frac{20}{6} \begin{array}{l} \div 2 \\ \div 2 \end{array}$$

$$= \boxed{\frac{10}{3}}$$

$$c) \frac{2}{3} \div \frac{4}{3}$$

flip the second fraction  
and multiply

$$= \frac{2}{3} \times \frac{3}{4}$$

$$= \frac{6}{12} \begin{array}{l} \div 2 \\ \div 2 \end{array}$$

$$= \frac{3}{6} \begin{array}{l} \div 3 \\ \div 3 \end{array}$$

$$= \frac{1}{2}$$

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## Adding Fractions

To add fractions, get a common denominator by multiplying denominators together. Then add numerators.

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

$\left( \begin{array}{l} \times 3 \\ \times 2 \end{array} \right)$

$$= \frac{3}{6} + \frac{4}{6}$$

$$= \boxed{\frac{7}{6}}$$

$$b) \quad \frac{1}{4} + \frac{2}{3} \\ \stackrel{\times 3}{=} \left( \frac{3}{12} + \frac{8}{12} \right) \stackrel{\times 4}{}$$

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

c)

$$= \left( \frac{3}{5} + \frac{1}{2} \right) \times 5$$
$$= \frac{6}{10} + \frac{5}{10}$$

$$= \frac{11}{10}$$

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

$$= \frac{5}{3} + \frac{7}{4}$$

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

$$= \frac{20}{12} + \frac{21}{12}$$

$$= \boxed{\frac{41}{12}}$$



$$A) \quad \begin{array}{c} 2 \\ \leftarrow \\ 5 \end{array} + \begin{array}{c} 1 \\ \leftarrow \\ 4 \end{array}$$

$$\frac{2}{20} + \frac{1}{20} = \frac{3}{20}$$

$$B) \quad 3 \frac{1}{3} + \frac{1}{8}$$

$$\frac{3}{10} + \frac{9}{8} \rightarrow \frac{80}{24} + \frac{27}{24} =$$

$$\frac{107}{24}$$

$$\textcircled{c} \quad 2\frac{1}{3} + 5\frac{4}{5}$$

$$\frac{3}{3} + \frac{29}{5} \rightarrow \frac{35}{15} + \frac{87}{15}$$

$$= \frac{122}{15}$$

$$D) 2\frac{1}{5} + \frac{1}{10}$$

↓      ↓

$$\frac{11}{5} + \frac{1}{10}$$

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$$\frac{22}{10} + \frac{1}{10} = \frac{23}{10}$$

$$E) 10 \frac{1}{5} - 6 \frac{5}{6}$$

$$\frac{42}{4} - \frac{41}{6} = \frac{246}{24} - \frac{172}{24}$$

$$F) \frac{3}{4} - \frac{4}{9}$$

$$\frac{27}{36} - \frac{16}{36} = \frac{11}{36}$$

$$E) 10 \frac{3}{4} - 6 \frac{5}{6}$$

$$\begin{array}{r} \frac{43}{4} - \frac{41}{6} \\ \times 6 \left( \right) \times 4 \\ = \frac{258}{24} - \frac{164}{24} \end{array}$$

$$= \frac{94}{24} \begin{array}{l} \div 2 \\ \div 2 \end{array}$$

$$= \boxed{\frac{47}{12}}$$

## BEDMAS

$$(-2) + (-3) \times (-4) + (2)^2$$

$$= (-2) + \underbrace{(-3) \times (-4)} + 4$$

$$= (-2) + 12 + 4$$

$$= 10 + 4$$

$$= \boxed{14}$$

Test #1: Wednesday

Review: Tomorrow