

Fractions Quiz (Sample)

Morrow

Simplify:

$$\frac{5}{12} + \frac{3}{16} - \frac{1}{24} =$$

$$6\frac{1}{2} + 4\frac{7}{10} =$$

$$8\frac{2}{9} - 3\frac{7}{18} =$$

$$\frac{2}{3} \times \frac{5}{4} \div \frac{7}{12} =$$

$$1\frac{5}{8} \times 2\frac{2}{5} \div 5\frac{4}{7} =$$

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Simplify:

$$\frac{5}{12} + \frac{3}{16} - \frac{1}{24} = \frac{5}{12} \times \frac{4}{4} + \frac{3}{16} \times \frac{3}{3} - \frac{1}{24} \times \frac{2}{2} = \frac{20}{48} + \frac{9}{48} - \frac{2}{48}$$

$$= \frac{20+9-2}{48} = \frac{27}{48} = \frac{9 \times 3}{16 \times 3} = \frac{9}{16}$$

 $\frac{9}{16}$

$$6\frac{1}{2} + 4\frac{7}{10} = 6\frac{1}{2} \quad \frac{5}{10}$$

$$+ 4\frac{7}{10} \quad \frac{7}{10}$$

$$10 \quad \frac{12}{10} = 10 + 1\frac{2}{10} = 11\frac{1}{5}$$

 $11\frac{1}{5}$

$$8\frac{2}{9} - 3\frac{7}{18} = 8\frac{2}{9} \quad \frac{22}{18}$$

$$- 3\frac{7}{18} \quad \frac{7}{18}$$

$$4 \quad \frac{15}{18} = 4\frac{5}{6}$$

 $4\frac{5}{6}$

$$\frac{2}{3} \times \frac{5}{4} \div \frac{7}{12} = \frac{2}{3} \times \frac{5}{4} \div \frac{7}{12} = \frac{2}{3} \times \frac{5}{4} \times \frac{12}{7}$$

$$= \frac{2}{\cancel{3}} \times \frac{5}{\cancel{4}} \times \frac{\overset{1}{\cancel{12}}}{7} = \frac{2 \times 5 \times 1}{1 \times 1 \times 7} = \frac{10}{7}$$

 $\frac{10}{7}$

$$1\frac{5}{8} \times 2\frac{2}{5} \div 5\frac{4}{7} = \frac{13}{8} \times \frac{12}{5} \div \frac{39}{7} = \frac{13}{8} \times \frac{12}{5} \times \frac{7}{39}$$

$$= \frac{\overset{1}{\cancel{13}}}{\cancel{8}} \times \frac{\overset{1}{\cancel{12}}}{5} \times \frac{7}{\underset{\cancel{3}}{\cancel{39}}} = \frac{1 \times 1 \times 7}{2 \times 5 \times 1} = \frac{7}{10}$$

 $\frac{7}{10}$