

Bell work

$$1. \frac{3}{7} + \frac{8}{9} = \frac{3}{7}(9) + \frac{8}{9}(7) = \frac{27}{63} + \frac{56}{63} \\ = \frac{83}{63}$$

$$2. \frac{2}{5} - \frac{4}{7}$$

$$\frac{2}{5}(7) - \frac{4}{7}(5) = \frac{14}{35} - \frac{20}{35} = \frac{-6}{35}$$

$$3. \frac{3}{4} \div \frac{5}{6}$$

$$\frac{3}{4} \cdot \frac{6}{5} = \frac{18}{20} = \frac{9}{10}$$

## Solving Multi-step Equations

1.  $1 - 2b + 3b = 5$

$$\begin{array}{r} 1 + 1b = 5 \\ -1 \quad -1 \end{array}$$

$$b = 4$$

2.  $10 = -m + 2 - 7$

$$\begin{array}{r} 10 = -m - 5 \\ +5 \quad +5 \end{array}$$

$$m = -15$$

$$\begin{array}{r} 15 = -m \\ \underline{-1} \end{array}$$

$$\begin{array}{r}
 3. \quad -4(9 + 3f) = 24 \\
 -36 - 12f = 24 \\
 +36 \quad \quad \quad +36 \\
 \hline
 -12f = 60 \\
 \div -12 \quad \div -12 \\
 \hline
 f = -5
 \end{array}$$

$$\begin{array}{r}
 -4(9 + 3f) = 24 \\
 \underline{-4} \quad \quad \quad \underline{-4} \\
 9 + 3f = -6 \\
 -9 \quad \quad \quad -9 \\
 3f = -15 \\
 \underline{\quad 3} \quad \quad \quad \underline{\quad 3} \\
 f = -5
 \end{array}$$

$$4. \quad -24 - 7a = -10 - 9a$$

$$\quad \quad \quad \quad \quad +9a$$

$$\begin{array}{r} -24 + 2a = -10 \\ +24 \quad \quad \quad +24 \\ \hline \end{array}$$

$$\frac{2a}{2} = \frac{14}{2}$$

$$a = 7$$

$$5. \quad -6 + 5n = -2 + 2n - n$$

$$\cancel{-6} + 5n = -2 + \cancel{2n}$$

$$\cancel{+6} - 1n \quad \cancel{+6} - 1n$$

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$$\frac{4n}{4} = \frac{4}{4}$$

$$n = 1$$