

8.3 Warm Up

1. For each equation, multiply each term by the lowest common multiple of the denominators. Then, rewrite the equation.

a) $\frac{3}{4} - \frac{d}{3} = \frac{3}{8}$

b) $\frac{t-1}{5} = \frac{3}{2}$

Multiples of 4: 4, 8, _____

Multiples of 5: _____

Multiples of 3: 3, 6, _____

Multiples of 2: _____

Multiples of 8: 8, 16, 24

$$\underline{\hspace{2cm}} \times \frac{3}{4} - \underline{\hspace{2cm}} \times \frac{d}{3} = \underline{\hspace{2cm}} \times \frac{3}{8}$$

$$\underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}d + \underline{\hspace{2cm}}$$

2. Simplify.

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

b) $\frac{\left(-\frac{1}{2}\right) - 1}{2}$

$$= \left(\frac{3}{4} + \frac{\boxed{\hspace{2cm}}}{4} \right) \div 3$$

$$= \frac{\boxed{\hspace{2cm}}}{\boxed{\hspace{2cm}}} \div 3$$

$$= \frac{\boxed{\hspace{2cm}}}{\boxed{\hspace{2cm}}} \times \frac{1}{3}$$

$$= \frac{\boxed{\hspace{2cm}}}{\boxed{\hspace{2cm}}}$$

3. Use the distributive property to expand each expression.

a) $3(x - 1.2)$
 $= (3 \times x) - (3 \times 1.2)$

$$= \underline{\hspace{2cm}} - \underline{\hspace{2cm}}$$

b) $-4(m + 2.3)$

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