

Exploring Equivalent Equations

Home Link 6-7

NAME _____

DATE _____

TIME _____

- ① a. Use the Commutative Property (turn-around rule) to create an equivalent expression in which like terms are next to each other.



$$12k + 2 * 3 + 3k + 1 \underline{\hspace{10em}}$$

- b. Combine like terms from Problem 1a and write a simplified equivalent expression. _____

Write the expressions in simplest form.

② $4a + 5 - a + 10$ _____

③ $10(b + 5) + 15 + w$ _____

For Problems 4–5, identify the equations that are equivalent to the given equation. Circle ALL that apply.

- ④ $6x + (7 - 2) * x = 8 + 3x - 4$ $6x + 5x = 8 + 3x - 4$
 $6x + (7 - 2) * x = 3x + 12$
 $11x = 3x + 4$
- ⑤ $b + 2b - 10 = 10(b + 5) + 15 + b$ $3b - 10 = 10(b + 5) + 15 + b$
 $b + 2b - 10 = 10b + 50 + 15b$
 $b(1 + 2) - 10 = 10b + 50 + 15 + b$

- ⑥ Use a bar model or pan-balance model to solve one of the equations you circled in Problem 4.

$$x = \underline{\hspace{2em}}$$

Practice

Multiply.

⑦ $2\frac{1}{3} * \frac{3}{7} =$ _____

⑧ $1\frac{2}{3} * 2\frac{1}{2} =$ _____

⑨ _____ $= 3\frac{7}{10} * 2\frac{1}{4}$

⑩ $5\frac{3}{4} * 4\frac{2}{5} =$ _____