

Translating Math \leftrightarrow VerbalUsing Multiple Operations at Once

Each algebraic expression has multiple verbal translations. List the verbal expressions that correctly translate the algebraic expression.

_____ 1. $2x + 4$

_____ 2. $2(x + 4)$

_____ 3. $2(x - 4)$

_____ 4. $2x - 4$

_____ 5. $\frac{2x}{4}$

- a. two times the sum of a number and four
- b. two times a number minus four
- c. four less than the product of two and a number
- d. the quotient of two times a number and four
- e. the sum of two times a number and four
- f. two times the difference of a number and four
- g. divide the product of two and a number by four
- h. four more than the product of two and a number
- i. two times the quantity of a number minus four
- j. the difference of two times a number and four
- k. two times the quantity of a number plus four

Multiple Choice - Translate.5) seven times the sum of r and s

- a. $7r + s$
- b. $7 + rs$
- c. $7(r + s)$
- d. $7rs$

6) $3x - 5$

- a. three times the difference of a number and five
- b. three times a number less than five
- c. a number times the difference of three and five
- d. the difference of three times a number and five

Solve Some Equations with Fractions - Multiply by the denominator. Cross multiply.

7) $\frac{x-5}{2} = -3$

8) $\frac{-8+k}{4} = 2$

9) $\frac{7}{c} = \frac{21}{36}$

10) $\frac{3}{5} = \frac{24}{h}$

Distributive Property - With Fractions

Write the steps of each method.

$$\frac{1}{4}(8x - 2)$$

Method 1:

$$\frac{1}{4}(8x) + \frac{1}{4}(-2)$$

$$\frac{1}{4}\left(\frac{8x}{1}\right) + \frac{1}{4}\left(\frac{-2}{1}\right)$$

$$\frac{8x}{4} + \frac{-2}{4}$$

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

$$2x - \frac{1}{2}$$

Method 2:

$$\frac{8x - 2}{4}$$

$$\frac{8x}{4} + \frac{-2}{4}$$

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

$$2x - \frac{1}{2}$$

Choose the method you prefer and SHOW YOUR WORK.

1) $\frac{1}{4}(12x - 9)$

2) $-\frac{1}{8}(64x - 2)$

Multiple Choice - Simplify.

3) $\frac{1}{6}(6x - 4)$

4) $(14x - 49)\left(-\frac{1}{7}\right)$

a. $36x - 24$

a. $-2x + 7$

b. $36x - 4$

b. $2x - 7$

c. $x - 24$

c. $-2x - 7$

d. $x - \frac{2}{3}$

d. $2x + 7$