"Teacher" Name

Translating Math ←→ Verbal Using Multiple Operations at Once

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

$$E,H$$
 1. $2x + 4$

$$A = \frac{1}{2} \cdot \frac{1}{2} \cdot$$

$$\pm$$
, \pm 3. 2(x - 4)

B.C.
$$\sqrt{4}$$
. $2x - 4$

$$G_1, T_1, S_2$$

two times a number minus four

two times the sum of a number and four

Pd 12 Date COMON 12.17 Section 1.R.2

Multiple Choice - Translate.

5) seven times the sum of r and s

a.
$$7r + s$$

b.
$$7 + rs$$

$$(c.)$$
 7($r+s$)

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

$$x - 5 = -15$$

$$+5 + 5$$

$$x = -10$$

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

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

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

$$\frac{2\sqrt{c}}{2\sqrt{c}} = \frac{252}{2\sqrt{c}}$$

$$C = \sqrt{2}$$

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

$$\frac{3h}{3} = 120$$

$$\frac{3}{3} = 120$$

$$\frac{3}{3} = 120$$

$$\frac{3}{3} = 120$$

$$\frac{3}{3} = 120$$

Distributive Property - With Fractions

Write the steps of each method.

Method 1:

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

detribute

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

Put a Lunder

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

matt. Straight across $2x + \left(-\frac{1}{2}\right)$ Divide Induce



Divide/reduce Simplify

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

Method 2:

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



make 1 Fraction

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

distributive.

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

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

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

Choose the method you prefer and SHOW YOUR WORK.

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

$$12x-9$$

$$12x+9$$

$$12x+9$$

$$12x+9$$

$$\frac{2x + -9}{4}$$

 $3x - 94$

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

$$\frac{64x + -2}{-8}$$

Multiple Choice - Simplify.

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

$$\frac{6x-4}{6}$$

$$\frac{6x+-4-2}{6-2} = \frac{-2}{3}$$

$$x-2/3$$

a.
$$36x - 24$$

b.
$$36x - 4$$

c.
$$x - 24$$

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

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

$$\frac{14x - 49}{-7}$$
 $\frac{14x + -49}{-7}$
 $\frac{-2x + 7}{-7}$

(a.)
$$-2x + 7$$

b.
$$2x - 7$$

c.
$$-2x - 7$$

d.
$$2x + 7$$