

Unit 2 Lesson 13: Making New, True Equations

1 Math Talk: Evaluating Expressions (Warm up)

Student Task Statement

Find the value of y when $x = 5$.

$$y = 3x - 4$$

$$y = \frac{2}{5}x + 4$$

$$y = 2x + 3 + (3x - 1)$$

$$y = 4x - (x + 1)$$

2 Solving for a Variable

Student Task Statement

Solve for the indicated variable.

1. Solve for k . $2t + k = 6$

2. Solve for n . $10n = 2p$

3. Solve for c . $12 - 6d = 3c$

4. Solve for g . $h = 8g + 4$

5. Solve for x . $4x + 3y = 12$

6. Solve for y . $4x + 3y = 12$

3 Solving Some Equations

Student Task Statement

Solve each equation.

| row | column A | column B |
|-----|-----------------------------|--------------------------------|
| 1 | $4(2x + 8) - 10 = 14$ | $4 + 2(-3x + 5) = 20$ |
| 2 | $3(x - 4) + 6 = 60$ | $3(\frac{1}{2}x + 9) - 5 = 55$ |
| 3 | $4(\frac{x+3}{2}) - 5 = 10$ | $7 - 2(6x + 1) = -49$ |
| 4 | $2x + (5 - 3x) = 14$ | $1 = 5x + 10 - 4x$ |
| 5 | $4x + 2(3 - x) = 16$ | $x + 2(x - 4) + 5 = 12$ |
| 6 | $2x - 2(3x - 1) = 8$ | $-6x + 2(4x + 5) = 7$ |