## 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 | $2x−2(3x−1)=8$ | $-6x+2(4x+5)=7$ |

​​



© CC BY 2019 by Illustrative Mathematics®