

1st 5
SOLVE.

1. $4x - 2 = 5x - 3$

$$\begin{array}{r} -4x \\ \hline -2 = x - 3 \\ +3 \quad +3 \\ \hline 6t = 3t + 12 \end{array}$$

$$\begin{array}{r} -3t \\ \hline 3t - 3 = 3t + 3 \\ -3t \quad -3t \\ \hline -3 = 3 \text{ false} \\ \text{No Solution} \end{array}$$

3. $6t = 3(t+4) - t$

$$\begin{array}{r} 6t = 3t + 12 - t \\ -2t \quad -2t \\ \hline 4t = 12 \\ \frac{4t}{4} = \frac{12}{4} \\ t = 3 \end{array}$$

Equations Day 6

p. 20 WK8K

1) 7	9) 7	20) Identity
2) 9	10) No solution	22) Identity
3) -15	11) 4	23) No solution
4) 3	12) 8	24) 3
5) Identity	13) Identity	25) 2
6) 5	15) 2	28) No solution
7) No solution	17) Identity	30) Identity
8) 13		32) -3
		33) 4

Equations Day 6

11. $6k - 25 = 7 - 2k$

$$\begin{array}{r} +2k \\ \hline 8k - 25 = 7 \\ +25 \quad +25 \\ \hline 8k = 32 \\ \frac{8k}{8} = \frac{32}{8} \\ k = 4 \end{array}$$

Equations Day 6

7. $3(n - 1) = 5n + 3 - 2n$

$$\begin{array}{r} 3n - 3 = 5n + 3 - 2n \\ 3n - 3 = 3n + 3 \\ -3n \quad -3n \\ \hline -3 = 3 \text{ false} \\ \text{No solution} \end{array}$$

Equations Day 6

20. $4b - 1 = -4 + 4b + 3$

$$\begin{array}{r} 4b - 1 = -1 + 4b \\ -4b \quad -4b \\ \hline -1 = -1 \text{ True} \\ \text{Identity} \\ b = \mathbb{R} \end{array}$$

Equations Day 6

28. $3(2f + 4) = 2(3f - 6)$

$$\begin{array}{r} 6f + 12 = 6f - 12 \\ -6f \quad -6f \\ \hline 12 = -12 \text{ false} \\ \text{No solution} \end{array}$$

Equations Day 6

17. $2s - 12 + 2s = 4s - 12$

$$\begin{array}{r} 4s - 12 = 4s - 12 \\ -4s \quad \quad -4s \\ \hline -12 = -12 \quad \text{true} \\ \text{Identity} \end{array}$$

Equations Day 6

Mult. by 10 moves decimal 1 place.

Solving Multi-Step Equations

- Solving an Equation That Contains Decimals
 - Solve $0.5a + 8.75 = 13.25$

$$\begin{array}{r} 50a + 875 = 1325 \\ -875 \quad -875 \\ \hline 50a = 450 \quad a=9 \end{array}$$
 - Solve $0.025x + 22.95 = 23.65$

$$\begin{array}{r} 25x + 22950 = 23650 \\ -22950 \quad -22950 \\ \hline 25x = 700 \quad x=28 \end{array}$$

Equations Day 6

$0.4(2s + 4) = 4.8$

$$\begin{array}{r} 4(2s + 4) = 48 \\ 8s + 16 = 48 \\ -16 \quad -16 \\ \hline 8s = 32 \\ \frac{8s}{8} = \frac{32}{8} \\ s = 4 \end{array}$$

$6.1h = 9.3 - 3.2h$

$$\begin{array}{r} 61h = 93 - 32h \\ +32h \quad +32h \\ \hline 93h = 93 \\ \frac{93h}{93} = \frac{93}{93} \\ h = 1 \end{array}$$

Equations Day 6

Solving an Equations that Contains Fractions

$\frac{2}{3}x + \frac{1}{2}x = 7$

$$\begin{array}{r} 4x + 3x = 42 \\ 7x = 42 \\ \frac{7x}{7} = \frac{42}{7} \\ x = 6 \end{array}$$

$\frac{1}{4}m + \frac{1}{2}m = \frac{5}{8}$

$$\begin{array}{r} 2m + 4m = 5 \\ 6m = 5 \\ \frac{6m}{6} = \frac{5}{6} \\ m = \frac{5}{6} \end{array}$$

LC D

$$\begin{array}{r} 2 \quad | \quad 3 \\ 2 \cdot 2 = 4 \\ 2 \cdot 3 = 6 \end{array}$$

LC D

$$\begin{array}{r} 2 \quad | \quad 4 \quad | \quad 8 \\ 2 \cdot 2 = 4 \\ 2 \cdot 3 = 6 \\ 2 \cdot 4 = 8 \end{array}$$

Equations Day 6

$\frac{2}{3}a - \frac{3}{4} = \frac{3}{4}a$

$$\begin{array}{r} 8a - 9 = 9a \\ -8a \quad -8a \\ \hline -9 = a \end{array}$$

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

$$\begin{array}{r} 2(6x + 3) = 12x + 6 \\ 12x + 6 = 12x + 6 \\ \text{Identity} \\ x = \mathcal{R} \end{array}$$

Equations Day 6

PW 21

- Worksheet Practice

Equations with decimals and fractions

TURN IN

Equations Day 6