

Math 8

Our Goal: To continue learning to solve multi-step equations

Warm Up: You will need your homework, notebook, and computer
Everything else, bags etc. on the shelves, thank you

Today's Homework

1.1-1.2 Review, p.17: 1-14
ANSWERS ONLINE

Previous Homework

1.2 Exercises, p.14-15: 1-17 (odds)



The avg. of 2580, 2920
and x is

3000.

$$\frac{(2580+2920+x)}{3} = 3000$$

$$2580+2920+x = 9000$$

$$5500+x = 9000$$

$$21(2-x) + 12x = 44$$

$$42 - 21x + 12x = 44$$

$$\begin{array}{r} 42 - 9x = 44 \\ -42 \\ \hline -9x = 2 \end{array}$$

$$\begin{array}{r} -9x = 2 \\ \hline x = \frac{2}{-9} \end{array}$$

Solve the equation. Check your solution.

1) $-3z + 1 = 7$

2) $\frac{1}{2}x - 9 = -25$

$$\frac{1}{2}x - 9 = -25$$

$$-9 \quad -16$$

$$\frac{1}{2}x = -16$$

$$\frac{1}{2} \quad \frac{1}{2}$$

$$x = -32$$

$$-16 \cdot \frac{2}{1} = -32$$

Solve the equation. Check your solution.

3) $-4n - 8n + 17 = 23$

Solve the equation. Check your solution.

4) $-3(x+2) + 5x = -9$ 5) $5 + 1.5(2d-1) = 0.5$

$$-3x + -6 + 5x = -9$$

$$2x + -6 = -9$$

$$\begin{array}{r} +6 \quad +6 \\ \hline \end{array}$$

$$2x = -3$$

$$\begin{array}{r} \cancel{2} \quad \cancel{2} \\ \hline \end{array}$$

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

$$5 + 3d - 1.5 = 0.5$$

- 6) You scored 88, 92, and 87 on three tests. Write an equation to find the score you need on the fourth test so that your mean test score is 90.

$$\frac{(88 + 92 + 87 + x)}{4} = 90$$

~~$$\frac{(267 + x)}{4} = 90$$~~

~~$$267 + x = 360$$~~

$$\begin{array}{r} 267 + x = 360 \\ -267 \quad -267 \\ \hline 93 \end{array}$$

$$x = 93$$

Solve $8x + 9 - 4x = 25$. Check your solution.