

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)



"cost"

"number"

$$C = 15n + 85$$

$$\begin{array}{r}
 \overset{8}{365} = 15n + 85 \\
 \underline{-85} \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 \cancel{85} \\
 \underline{-85} \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 385 \\
 \cancel{\$365} \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 300 \\
 \cancel{280} \\
 \hline
 15
 \end{array}
 =
 \begin{array}{r}
 15n \\
 \hline
 15
 \end{array}$$

$$n = \frac{\overset{300}{\cancel{280}}}{15} = 20$$

$$15 \overline{)280}$$

Solve the equation. Check your solution.

1) $-3z + 1 = 7$

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

$$x = -32$$

$$-16 \div \frac{1}{2}$$

$$\frac{-16}{\frac{1}{2}} \quad \frac{-16 \times \frac{2}{1}}{1}$$

Solve the equation. Check your solution.

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

Solve the equation. Check your solution.

✓ 4) $-3(x + 2) + 5x = -9$

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

5) $5 + 1.5(2d - 1) = 0.5$

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

$$\begin{array}{r} 3d + 3.5 = 0.5 \\ -3.5 \quad -3.5 \\ \hline 3d = -3 \\ d = -1 \end{array}$$

$d = -1$

- 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.

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

$$88 + 92 + 87 + x = 360$$

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

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