

3-2 Solving Multi-Step Equations

Combining Like Terms:

1. $n + 2n - 3 = 9$

2. $-2 = 3x + 6 - 4x$

Distributive Property:

3. $3(k + 8) = 21$

4. $15 = -3(x - 1) + 9$

Decimals:

5. $0.5a + 8.75 = 13.25$

6. $1.2x - 3.6 + 0.3x = 2.4$

But let's face it, solving equations with just numbers and no real-world application can be boring. So to have some real fun, we are going to tackle some word problems!

Steps to Solving Word Problems

1.

2.

3.

If these questions were contained in word problems, what might the word problems say???

1. How many roses can you buy?

2. Find the number of minutes that Mary can talk with her mother on the phone.

3. How many lawns will Jimmy have to mow to make a profit of \$200 for his new business?

Solve each equation. Check your answer on your calculator.

1. $5 - 13 + 3a = 13$

2. $7c - 6 - 3c = 6$

3. $-4(x + 6) = -40$

4. $d + 5(d - 1) = 7$

5. $1.12 + 1.25y = 8.62$

6. $0.25m + 0.1m = 9.8$