

Solving One-Step Equations

Grade 8 • MATH • Solving one-step equations • Standards: 8.EE.C.7

Use inverse operations to solve for x in each equation. Write your final answer on the line!

1. $x + 14 = -9$

2. $x - 12 = -28$

3. $-7x = 56$

4. $x / -5 = -11$

5. $x + 4.8 = -2.3$

6. $-0.4x = 3.2$

7. $x - 2/3 = -5/6$

8. $3/5 x = -15$

9. $-18 = -2/7 x$

10. $x / -1.2 = 3.5$

Answer Key — Solving One-Step Equations

For the teacher / parent. Do not distribute with the worksheet.

1. $x = -23$ (Subtract 14 from both sides: $x = -9 - 14 = -23$.)
2. $x = -16$ (Add 12 to both sides: $x = -28 + 12 = -16$.)
3. $x = -8$ (Divide both sides by -7: $x = 56 / -7 = -8$.)
4. $x = 55$ (Multiply both sides by -5: $x = -11 * -5 = 55$.)
5. $x = -7.1$ (Subtract 4.8 from both sides: $x = -2.3 - 4.8 = -7.1$.)
6. $x = -8$ (Divide both sides by -0.4: $x = 3.2 / -0.4 = -8$.)
7. $x = -1/6$ (Add $2/3$ (or $4/6$) to both sides: $x = -5/6 + 4/6 = -1/6$.)
8. $x = -25$ (Multiply both sides by $5/3$: $x = -15 * (5/3) = -25$.)
9. $x = 63$ (Multiply both sides by $-7/2$: $x = -18 * (-7/2) = 63$.)
10. $x = -4.2$ (Multiply both sides by -1.2: $x = 3.5 * -1.2 = -4.2$.)