ALBERT

Name _____ Date _____

One-Step Equations Worksheet

Grade 6 · Common Core 6.EE.B.7

> Solve real-world and mathematical problems by writing and solving equations of the form x + p = q and px = q for cases in which p, q and x are all nonnegative rational numbers.

Practice

Builds the skill step by step.

1. Solve: x + 8 = 15

2. Solve: 4y = 28

3. Solve: n + 12 = 30

4. What is the solution of 6m = 54?

   A. m = 48

   B. m = 60

   C. m = 9

   D. m = 324

5. Solve: a + 3.5 = 10

6. Solve: 9k = 63

7. Solve: $w + 25 = 40$

8. Which first step solves $5x = 45$?

   A. Divide both sides by 5.

   B. Subtract 5 from both sides.

   C. Multiply both sides by 5.

   D. Add 5 to both sides.

9. Solve: $2b = 13$

10. Solve: $p + \frac{1}{4} = \frac{3}{4}$

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On Level

Grade-level practice.

1. Solve: $\frac{2}{3}x = 8$

2. Solve: $y + 4.75 = 12.2$

3. Solve: $1.5n = 9$

4. A book costs $14, which is $5 more than a magazine. Which equation finds the magazine's price m?

   A. $5m = 14$

   B. $m - 5 = 14$

   C. $m + 14 = 5$

   D. $m + 5 = 14$

5. Solve the equation from problem 4 for m.

6. Six friends split a bill equally and each pays $8.50. Write and solve an equation for the total bill b.

7. Solve: $x + \frac{3}{8} = 2$

8. What is the solution of $0.4x = 2$?

   A. $x = 0.8$

   B. $x = 1.6$

   C. $x = 5$

   D. $x = 50$

9. A rectangle has an area of 72 square inches and a width of 8 inches. Write and solve an equation for its length l.

10. Solve: $\frac{3}{4}k = \frac{9}{16}$

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Challenge

Multi-step and word problems that stretch it.

1. After spending $23.60, Mia has $16.40 left. Write and solve an equation for the amount she started with, s.

2. A car travels 182 miles at 52 miles per hour. Write and solve an equation for the time t in hours.

3. Solve: $\frac{5}{6}x = 25$

4. Liam says the solution of $x + 12 = 20$ is $x = 32$. What did he do wrong?

   A. He added 12 instead of subtracting it.

   B. He divided by 12.

   C. He multiplied by 12.

   D. He is correct.

5. A recipe needs $\frac{3}{4}$ cup of sugar per batch. Ella used $4\frac{1}{2}$ cups. Write and solve an equation for the number of batches b.

6. A plant grew 2.4 cm and is now 15.1 cm tall. Write and solve an equation for its original height h.

7. The perimeter of a square is 34 meters. Write and solve an equation for the side length s.

8. Jake has 3 times as many stickers as Ana. Jake has 117 stickers. Write and solve an equation for the number Ana has, a.

9. Solve: $x + 0.06 = 1$

10. A school needs $1,250 for a trip. It has raised $875. Write and solve an equation for the amount still needed, n.