

Unit 2 Skill Review

Combining Like Terms (Level Easy)

1) $-2a - 4 + 10 + 3a$

2) $10n - 9n$

Combining Like Terms (Level Medium)

3) $3m - 3(5m + 8)$

4) $1 + 8(1 + 2x)$

Combining Like Terms (Level Hard)

5) $-7(7x - 5) + 4(7x - 4)$

6) $-8(-8x + 4) - 7(x + 3)$

One Step Equation (Level Easy)

7) $5a = -20$

8) $\frac{x}{10} = -7$

One Step Equation (Level Medium)

9) $0 = 29x$

10) $-54 = -28 - n$

One Step Equation (Level Hard)

11) $-99 = -73 - x$

12) $x - (-91) = 53$

Two Step Equation (Level Easy)

13) $-3x + 4 = 19$

14) $\frac{x}{4} - 1 = -2$

Two Step Equation (Level Medium)

15) $\frac{x}{9} - 9 = -8$

16) $\frac{11 + r}{32} = 1$

Two Step Equation (Level Hard)

17) $-18 - 10x = -218$

18) $\frac{b}{5} + 19 = 26$

Multi Step Equation (Level Easy)

19) $0 = 5x + 6x$

20) $6k + 3k = -18$

Multi Step Equation (Level Medium)

21) $-3(8x + 8) + 3 = 5x - 21$

22) $-8n + 7(3 + 4n) = -35 + 6n$

Multi Step Equation (Level Hard)

23) $x + 5 + 10x + 11 = -3(4x + 11) - 9(2x - 10)$

24) $9(1 - 2x) = -5(12 + 3x)$

One Step-Equation Word Problems (Level Easy)

- 25) Carlos is cooking muffins. The recipe calls for 9 cups of flour. He has already put in 3 cups. How many more cups does he need to put in?
- 26) In eight years Scott will be 12 years old. How old is he now?

One Step-Equation Word Problems (Level Medium)

- 27) At a restaurant, Julio and his three friends decided to divide the bill evenly. If each person paid \$16.36, then what was the total bill?
- 28) Anjali was given \$9.46 for washing the dog. She now has \$22.63. How much money did she start with?

One Step-Equation Word Problems (Level Hard)

- 29) If the weight of a package is multiplied by $\frac{5}{6}$ the result is 74.5 pounds. Find the weight of the package.
- 30) A colony of ants carried away 28 of your muffins. That was $\frac{7}{10}$ of all of them! With how many did you start?

Two-Step Equations Involving Proportions (Level Easy)

- 31) $\frac{4}{6} = \frac{5}{x}$
- 32) $\frac{4}{3} = \frac{r}{6}$

Two-Step Equations Involving Proportions (Level Medium)

- 33) $\frac{6}{7} = \frac{r}{12}$
- 34) $\frac{7}{8} = \frac{v}{6}$

Two-Step Equations Involving Proportions (Level Hrd)

- 35) $\frac{10}{8} = -\frac{4}{x}$
- 36) $-\frac{6}{20} = \frac{13}{x}$

Order of Operations with Variables (Level Hard)

- 37) $y - \left(x^2 + \frac{y}{4}\right)$; use $x = -8$, and $y = 8$
- 38) $x + |4 + y| - y$; use $x = 7$, and $y = 6$
- 39) $y - (y - x) + y - x$; use $x = -8$, and $y = 4$
- 40) $y - x - (y - y) - x$; use $x = 9$, and $y = -5$