

Name: _____

Date: _____

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Multistep Equations Worksheet

Solve each equation. Show your work in the space provided.

1. Solve the following equations.

a) $3x + 5 = 20$ $x =$ _____

b) $2x - 7 = 15$ $x =$ _____

c) $4x + 3 = 27$ $x =$ _____

d) $5x - 6 = 19$ $x =$ _____

e) $6x + 8 = 44$ $x =$ _____

f) $7x - 9 = 30$ $x =$ _____

2. Solve the following equations.

a) $2x + 3 = 15 + x$ $x =$ _____

b) $5x - 4 = 3x + 12$ $x =$ _____

c) $7x + 6 = 2x + 21$ $x =$ _____

d) $4x - 5 = 3x + 10$ $x =$ _____

e) $6x + 9 = 5x - 3$ $x =$ _____

f) $8x - 7 = 4x + 17$ $x =$ _____

3. Solve the following equations.

a) $2(x + 3) = 16$ $x =$ _____

b) $3(x - 4) = 15$ $x =$ _____

c) $4(x + 5) - 6 = 18$ $x =$ _____

d) $5(x - 2) + 3 = 28$ $x =$ _____

e) $6(x + 1) - 8 = 34$ $x =$ _____

f) $7(x - 3) + 5 = 26$ $x =$ _____

4. Solve the following equations.

a) $3(x + 2) - 5 = 16$ $x =$ _____

b) $4(x - 1) + 7 = 27$ $x =$ _____

c) $5(x + 3) - 4 = 29$ $x =$ _____

d) $6(x - 2) + 8 = 38$ $x =$ _____

e) $7(x + 4) - 10 = 45$ $x =$ _____

f) $8(x - 5) + 6 = 30$ $x =$ _____

5. Solve the following equations.

a) $\frac{x + 4}{3} = 7$ $x =$ _____

b) $\frac{x - 5}{2} = 6$ $x =$ _____

c) $\frac{2x + 3}{4} = 5$ $x =$ _____

d) $\frac{3x - 7}{5} = 8$ $x =$ _____

e) $\frac{x + 6}{7} = 4$ $x =$ _____

f) $\frac{5x - 2}{6} = 3$ $x =$ _____

6. Solve the following equations.

a) $3(x - 2) + 4 = 19$ $x =$ _____

b) $5(x + 1) - 7 = 23$ $x =$ _____

c) $2(x - 3) + 9 = 17$ $x =$ _____

d) $4(x + 5) - 6 = 28$ $x =$ _____

e) $6(x - 1) + 5 = 41$ $x =$ _____

f) $7(x + 2) - 8 = 50$ $x =$ _____

7. Word Problems

- a) A number is 5 more than 3 times another number. If the number is 20, what is the other number?
Answer: _____
- b) The sum of a number and 8 is 3 times the number. What is the number?
Answer: _____
- c) A basket has 5 apples. The number of apples is 4 times the number of oranges. If there are 20 fruits in total, how many oranges are there?
Answer: _____
- d) A person is 3 years older than twice his age. If his age is 10 years, what is the age of the person?
Answer: _____

8. Challenge Questions

- a) $4(x + 3) - 2(x - 1) = 18$ $x =$ _____
- b) $3(2x - 5) + 4 = 25$ $x =$ _____
- c) $\frac{5x + 7}{3} - 4 = 6$ $x =$ _____
- d) $2(3x - 4) - 5 = 11$ $x =$ _____



You can do it!

