

# Multi-Step Equations Practice

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Solve each equation. Show all your work.

**Directions:** Show all your work in the space provided. Write your final answer on the line.

**1** Solve for  $x$ :  $3x + 7 = 22$

Show your work:

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**Answer:** \_\_\_\_\_

**2** Solve for  $y$ :  $2(y - 4) = 10$

Show your work:

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**Answer:** \_\_\_\_\_

3 Solve for x:  $5x - 3 = 2x + 12$

Show your work:

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**Answer:**                     

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- 4 A rectangle has a perimeter of 36 cm. If the length is 3 times the width, find the dimensions.

Show your work:

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**Answer:** \_\_\_\_\_

- 5 Solve for x:  $(x + 5)/3 = 7$

Show your work:

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**Answer:** \_\_\_\_\_

6 Which value of  $x$  makes the equation true?  $4(x - 2) + 6 = 3x + 5$

Show your work:

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A  $x = 3$

B  $x = 5$

C  $x = 7$

D  $x = 9$

7 Solve for n:  $-2(n + 3) = 4n - 18$

Show your work:

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**Answer:** \_\_\_\_\_

8 The sum of three consecutive integers is 51. What are the integers?

Show your work:

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**Answer:** \_\_\_\_\_

9 Solve for x:  $0.5x + 1.5 = 4$

Show your work:

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**Answer:**

1. 5

2. 9

3. 5

4. Width: 4.5 cm, Length: 13.5 cm

5. 16

6. C.  $x = 7$

7. 2

8. 16, 17, 18

9. 5