



**Test  
B****Unit 9: Percentage****Chapter 3: Percentage of a Quantity**

Circle the correct option, **A**, **B**, **C** or **D**.

1. Find the value of 12% of 60.

**A** 5

**C** 7.5

**B** 7.2

**D** 8.5

2. The value of 15% of 2 m is \_\_\_\_\_ cm.

**A** 0.3

**C** 300

**B** 30

**D** 3000

3. What is the difference between 35% of 120 and 15% of 160?

**A** 18

**C** 42

**B** 24

**D** 66

4. What is the sum of 12% of \$120 and 15% of \$70?

**A** \$12.72

**C** \$24.90

**B** \$22.77

**D** \$32.30

5. During the day, the length of an iron rod was 10.5 m. In the evening, the rod contracted to 9.8 m. Express the decrease in the length of the rod as a percentage.

**A** 3.44%

**C** 7%

**B**  $6\frac{2}{3}\%$

**D** 7.14%

**Test  
A****Unit 13: Algebra****Chapter 1: Algebraic Expressions**

- Find the value of each of the following when  $x = 3$ .
  - $2x - 5 =$  \_\_\_\_\_
  - $\frac{3x - 1}{4} =$  \_\_\_\_\_
  - $x^2 - 8 =$  \_\_\_\_\_
  - $119 - 3x^3 =$  \_\_\_\_\_
- Simplify the following expressions.
  - $3y - 2y + y =$  \_\_\_\_\_
  - $7m - 3 + 6m =$  \_\_\_\_\_
  - $4 + 12x + 3x - 1 =$  \_\_\_\_\_
  - $\frac{a}{2} + \frac{a}{3} - \frac{a}{4} =$  \_\_\_\_\_
- Don will be  $8x$  years next year. How old was Don 5 years ago?  
Give your answer in terms of  $x$ .  
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