



# Perimeter, Area, and Surface Area

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

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

Grade: Grade 5

## Part A: Multiple Choice

Circle the best answer for each question.

1. Which formula finds how much paint is needed to cover the outside of a closed box?

- A)  $SA = 2lw + 2lh + 2wh$
- B)  $V = l \times w \times h$
- C)  $P = 2(l+w)$
- D)  $A = 1/2 \times b \times h$

2. Which formula tells how much water fills a fish tank?

- A)  $SA = 2lw + 2lh + 2wh$
- B)  $V = l \times w \times h$
- C)  $A = l \times w$
- D)  $P = 4 \times s$

3. A storage box is 8 m x 5 m x 4 m. What is its volume?

- A) 80 cubic m
- B) 120 cubic m
- C) 160 cubic m
- D) 200 cubic m

4. A cube has side 6 ft. What is its surface area?

- A) 36 sq ft
- B) 144 sq ft
- C) 180 sq ft
- D) 216 sq ft

## Part B: Fill in the Blank

Write the correct answer on each line.

1. A rectangular prism 7 ft x 4 ft x 3 ft has volume \_\_\_\_\_ cubic ft.
2. A box 10 cm x 6 cm x 4 cm has surface area \_\_\_\_\_ sq cm.
3. A cube of side 7 m has volume \_\_\_\_\_ cubic m.
4. A swimming pool 12 m x 6 m x 2 m holds \_\_\_\_\_ cubic m of water.
5. A box 5 in x 5 in x 5 in has surface area \_\_\_\_\_ sq in.

### Part A: Multiple Choice

Circle the best answer for each question.

1. Which formula finds how much paint is needed to cover the outside of a closed box?

- A)  $SA = 2lw + 2lh + 2wh$
- B)  $V = l \times w \times h$
- C)  $P = 2(l+w)$
- D)  $A = 1/2 \times b \times h$

2. Which formula tells how much water fills a fish tank?

- A)  $SA = 2lw + 2lh + 2wh$
- B)  $V = l \times w \times h$
- C)  $A = l \times w$
- D)  $P = 4 \times s$

3. A storage box is 8 m x 5 m x 4 m. What is its volume?

- A) 80 cubic m
- B) 120 cubic m
- C) 160 cubic m
- D) 200 cubic m

4. A cube has side 6 ft. What is its surface area?

- A) 36 sq ft
- B) 144 sq ft
- C) 180 sq ft
- D) 216 sq ft

### Part B: Fill in the Blank

Write the correct answer on each line.

1. A rectangular prism 7 ft x 4 ft x 3 ft has volume 84 cubic ft.
2. A box 10 cm x 6 cm x 4 cm has surface area 248 sq cm.
3. A cube of side 7 m has volume 343 cubic m.
4. A swimming pool 12 m x 6 m x 2 m holds 144 cubic m of water.
5. A box 5 in x 5 in x 5 in has surface area 150 sq in.