



# Place Value & Powers of 10

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

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

Grade: Grade 5

## Part A: Multiple Choice

Circle the best answer for each question.

1. A city has about  $2 \times 10^6$  people. A town has about  $2 \times 10^4$  people. The city is how many times larger?

- A) 10 times
- B) 100 times
- C) 1,000 times
- D) 10,000 times

2. A factory produces 8,500 items per day. How many items does it produce in  $10^3$  days?

- A) 85,000
- B) 850,000
- C) 8,500,000
- D) 85,000,000

3. Earth is about 150,000,000 km from the Sun. Which expression shows this distance?

- A)  $15 \times 10^6$
- B)  $1.5 \times 10^8$
- C)  $15 \times 10^8$
- D)  $1.5 \times 10^7$

4. A school raised \$4,200. Another school raised  $10^2$  times as much. How much did the second school raise?

- A) \$42,000
- B) \$420,000
- C) \$4,200,000
- D) \$42

## Part B: Fill in the Blank

Write the correct answer on each line.

1. A stadium holds 65,000 people. Write as a product: \_\_\_\_\_  $\times 10^3$ .
2. A library has  $3 \times 10^5$  books. That is \_\_\_\_\_ books.
3. A state is about 400,000 meters wide. In kilometers ( $\div 1,000$ ) that is \_\_\_\_\_ km.
4. A website had 9,100,000 visitors. The 9 in this number has a value of \_\_\_\_\_ million.
5. If you divide 5,600,000 by  $10^4$ , you get \_\_\_\_\_.

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- C) \$4,200,000
- D) \$42

**Part B: Fill in the Blank**

Write the correct answer on each line.

1. A stadium holds 65,000 people. Write as a product: 65  $\times 10^3$ .
2. A library has  $3 \times 10^5$  books. That is 300,000 books.
3. A state is about 400,000 meters wide. In kilometers ( $\div 1,000$ ) that is 400 km.
4. A website had 9,100,000 visitors. The 9 in this number has a value of 9 million.
5. If you divide 5,600,000 by  $10^4$ , you get 560.