

Name:

Date:

# MULTIPLYING BY POWERS OF 10

## Multiply by 1, 10 and 100

### LEARN

- To multiply by a power of 10, simply move the decimal to the right the same number of places as the exponent or as the number of zeros

- ex:

$$42.158 \times 10^3 = 42\,158$$

**42.158**  move 3 places to right

$$3.5 \times 10^2 = 350$$

**3.5**  move 2 places to right

$$1.23 \times 10^4 = 12\,300$$

**1.23**  move 4 places to right

See a pattern?

### ACTIVITY: MULTIPLY BY POWERS OF 10:

1  $16.3 \times 10^2 =$  \_\_\_\_\_

2  $0.5 \times 10^3 =$  \_\_\_\_\_

3  $1.986 \times 10^4 =$  \_\_\_\_\_

4  $12 \times 10^0 =$  \_\_\_\_\_

5  $36.1 \times 10^1 =$  \_\_\_\_\_

6  $0.058 \times 10^3 =$  \_\_\_\_\_

7  $397.2 \times 10^5 =$  \_\_\_\_\_

8  $25 \times 10^6 =$  \_\_\_\_\_

# Answer key

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See a pattern?

#### ACTIVITY: MULTIPLY BY POWERS OF 10:

1  $16.3 \times 10^2 = \underline{\underline{1\,630}}$

2  $0.5 \times 10^3 = \underline{\underline{500}}$

3  $1.986 \times 10^4 = \underline{\underline{19\,860}}$

4  $12 \times 10^0 = \underline{\underline{12}}$

5  $36.1 \times 10^1 = \underline{\underline{361}}$

6  $0.058 \times 10^3 = \underline{\underline{58}}$

7  $397.2 \times 10^5 = \underline{\underline{39\,720\,000}}$

8  $25 \times 10^6 = \underline{\underline{25\,000\,000}}$