

# Multiplication

Unit Test, Form A (page 1 of 2)

Score \_\_\_\_\_ / 10

1. Multiply.

$36 \times 100 =$  \_\_\_\_\_

$8 \times 700 =$  \_\_\_\_\_

$5 \times 4,000 =$  \_\_\_\_\_

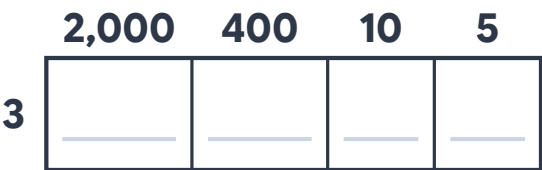
$30 \times 60 =$  \_\_\_\_\_

2. Fill in the area model. Then multiply.



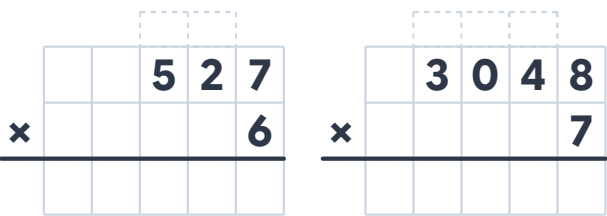
$67 \times 4 =$  \_\_\_\_\_

3. Fill in the area model. Then multiply.



$2,415 \times 3 =$  \_\_\_\_\_

4. Multiply with the standard algorithm.



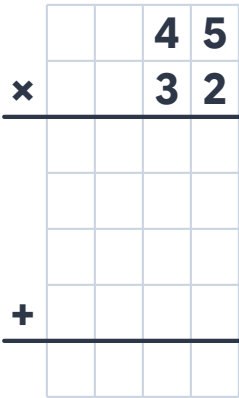
5. Fill in the area model. Then multiply.



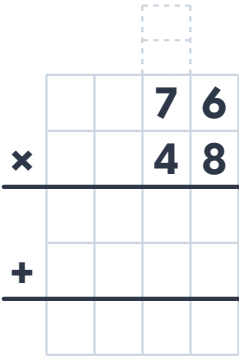
$34 \times 27 =$  \_\_\_\_\_

6. Multiply each way.

Partial products



Standard algorithm



# Multiplication

Unit Test, Form A (page 2 of 2)

7. Round each factor to its greatest place. Is the answer reasonable?

$$48 \times 31 = 1,488 \quad \text{Yes} \quad \text{No}$$

Estimate \_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_

$$612 \times 7 = 428 \quad \text{Yes} \quad \text{No}$$

Estimate \_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_

8. Write an equation with a letter for the unknown. Solve.

A farm plants **45** rows of corn. Each row has **28** plants. How many corn plants are there?

Equation \_\_\_\_\_  
\_\_\_\_\_ plants

9. Write an equation with a letter for the unknown. Solve.

Mia has **124** stickers. Her brother has **3** times as many stickers. How many stickers does he have?

Equation \_\_\_\_\_  
\_\_\_\_\_ stickers

10. Multiply.

|          |  |  |   |   |   |
|----------|--|--|---|---|---|
|          |  |  |   |   |   |
|          |  |  | 3 | 8 | 6 |
| $\times$ |  |  |   | 4 | 7 |
| <hr/>    |  |  |   |   |   |
|          |  |  |   |   |   |
| $+$      |  |  |   |   |   |
| <hr/>    |  |  |   |   |   |
|          |  |  |   |   |   |

## Unit Test, Form B (page 1 of 2)

Score            / 10

**74 × 100 =** \_\_\_\_\_

$9 \times 600 =$

$$6 \times 5,000 =$$

**40 × 70 =**

|   |                   |                   |
|---|-------------------|-------------------|
|   | 70                | 6                 |
| 3 | <u>          </u> | <u>          </u> |

$76 \times 3 =$

|   | 1,000 | 600   | 20    | 3     |
|---|-------|-------|-------|-------|
| 4 | _____ | _____ | _____ | _____ |

$$1,623 \times 4 = \underline{\hspace{2cm}}$$

|       |  |   |   |   |
|-------|--|---|---|---|
|       |  |   |   |   |
|       |  | 6 | 3 | 8 |
| x     |  |   |   | 5 |
| <hr/> |  |   |   |   |
|       |  |   |   |   |

|       |  |   |   |   |
|-------|--|---|---|---|
|       |  |   |   |   |
|       |  | 2 | 0 | 7 |
| x     |  |   |   | 9 |
| <hr/> |  |   |   |   |
|       |  |   |   | 4 |

|    |                   |                   |
|----|-------------------|-------------------|
|    | 30                | 8                 |
| 20 | <u>          </u> | <u>          </u> |
| 4  | <u>          </u> | <u>          </u> |

$$38 \times 24 =$$

|                                        |  |   |   |
|----------------------------------------|--|---|---|
|                                        |  | 5 | 4 |
| ×                                      |  | 2 | 3 |
| <hr style="border: 1px solid black;"/> |  |   |   |
|                                        |  |   |   |
|                                        |  |   |   |
|                                        |  |   |   |
| +                                      |  |   |   |
| <hr style="border: 1px solid black;"/> |  |   |   |
|                                        |  |   |   |

|       |  |  |   |   |
|-------|--|--|---|---|
|       |  |  |   |   |
|       |  |  | 6 | 7 |
| ×     |  |  | 3 | 9 |
| <hr/> |  |  |   |   |
| +     |  |  |   |   |
| <hr/> |  |  |   |   |

## Unit Test, Form B (page 2 of 2)

- Estimate**      **x**      **=**

- Equation \_\_\_\_\_
- bagels

- Equation \_\_\_\_\_ meters

- |       |  |  |  |   |   |   |
|-------|--|--|--|---|---|---|
|       |  |  |  |   |   |   |
|       |  |  |  |   |   |   |
|       |  |  |  |   |   |   |
|       |  |  |  |   |   |   |
| x     |  |  |  | 4 | 2 | 7 |
|       |  |  |  |   | 3 | 6 |
| <hr/> |  |  |  |   |   |   |
|       |  |  |  |   |   |   |
| +     |  |  |  |   |   |   |
|       |  |  |  |   |   |   |
| <hr/> |  |  |  |   |   |   |

# Multiplication

Unit Test, Form A (page 1 of 2)

Score \_\_\_\_\_ / 10

1. Multiply.

$$36 \times 100 = \underline{3,600}$$

$$8 \times 700 = \underline{5,600}$$

$$5 \times 4,000 = \underline{20,000}$$

$$30 \times 60 = \underline{1,800}$$

Lesson 4.1 · Multiply by 10, 100 and 1,000

2. Fill in the area model. Then multiply.

|   |            |           |
|---|------------|-----------|
|   | 60         | 7         |
| 4 | <u>240</u> | <u>28</u> |

$$67 \times 4 = \underline{268}$$

Lesson 4.2 · 2-digit times 1-digit

3. Fill in the area model. Then multiply.

|   |              |              |           |           |
|---|--------------|--------------|-----------|-----------|
|   | 2,000        | 400          | 10        | 5         |
| 3 | <u>6,000</u> | <u>1,200</u> | <u>30</u> | <u>15</u> |

$$2,415 \times 3 = \underline{7,245}$$

Lesson 4.3 · 3- and 4-digit times 1-digit

4. Multiply with the standard algorithm.

|   |  |   |   |   |
|---|--|---|---|---|
|   |  |   | 1 | 4 |
|   |  | 5 | 2 | 7 |
| × |  |   |   | 6 |
|   |  | 3 | 1 | 6 |
|   |  |   |   | 2 |

|   |  |   |   |   |
|---|--|---|---|---|
|   |  |   | 3 | 5 |
|   |  | 3 | 0 | 4 |
| × |  |   |   | 8 |
|   |  |   |   | 7 |
|   |  | 2 | 1 | 3 |
|   |  |   |   | 6 |

Lesson 4.4 · The standard algorithm

5. Fill in the area model. Then multiply.

|    |            |           |
|----|------------|-----------|
|    | 30         | 4         |
| 20 | <u>600</u> | <u>80</u> |
| 7  | <u>210</u> | <u>28</u> |

$$34 \times 27 = \underline{918}$$

Lesson 4.5 · 2-digit times 2-digit: area models

6. Multiply each way.

Partial products

|   |   |   |   |
|---|---|---|---|
|   |   | 4 | 5 |
| × |   | 3 | 2 |
|   |   | 1 | 0 |
|   |   | 8 | 0 |
|   | 1 | 5 | 0 |
| + | 1 | 2 | 0 |
|   | 1 | 4 | 4 |

Standard algorithm

|   |   |   |   |
|---|---|---|---|
|   |   | 2 |   |
|   |   | 4 |   |
|   |   | 7 | 6 |
| × |   | 4 | 8 |
|   |   | 6 | 0 |
|   | 3 | 0 | 4 |
| + | 3 | 0 | 4 |
|   | 3 | 6 | 4 |

Lesson 4.6 · 2-digit times 2-digit in a column

# Multiplication

Unit Test, Form A (page 2 of 2)

7. Round each factor to its greatest place. Is the answer reasonable?

$$48 \times 31 = 1,488$$

Yes No

Estimate 50  $\times$  30 = 1,500

$$612 \times 7 = 428$$

Yes No

Estimate 600  $\times$  7 = 4,200

Lesson 4.8 · Estimate products

8. Write an equation with a letter for the unknown. Solve.

A farm plants **45** rows of corn. Each row has **28** plants. How many corn plants are there?

Equation  $45 \times 28 = c$

One way

1,260 plants

Lesson 4.9 · Multiplication stories

9. Write an equation with a letter for the unknown. Solve.

Mia has **124** stickers. Her brother has **3** times as many stickers. How many stickers does he have?

Equation  $3 \times 124 = s$

One way

372 stickers

Lesson 4.9 · Multiplication stories

10. Multiply.

|          |   |   |   |   |   |
|----------|---|---|---|---|---|
|          |   |   | 3 | 2 |   |
|          |   |   | 6 | 4 |   |
|          |   |   | 3 | 8 | 6 |
| $\times$ |   |   |   | 4 | 7 |
|          |   |   | 2 | 7 | 0 |
|          |   |   | 2 | 7 | 0 |
| $+$      | 1 | 5 | 4 | 4 | 0 |
|          | 1 | 8 | 1 | 4 | 2 |

Lesson 4.7 · 3-digit times 2-digit

## Lesson 4.1 · Multiply by 10, 100 and 1,000

Lesson 4.2 · 2-digit times 1-digit

### Lesson 4.3 · 3- and 4-digit times 1-digit

## Lesson 4.4 · The standard algorithm

Lesson 4.5 · 2-digit times 2-digit: area models

Lesson 4.6 · 2-digit times 2-digit in a column

Unit Test, Form B (page 2 of 2)

**7. Round each factor to its greatest place. Is the answer reasonable?**

**59 × 21 = 12,390**      Yes ☒ No

**Estimate**    **60**    **×**    **20**    **=**    **1,200**

**389 × 6 = 2,334**      ( Yes )    No

**Estimate**    **400**   **×**   **6**   **=**   **2,400**

Lesson 4.8 · Estimate products

**8. Write an equation with a letter for the unknown. Solve.**

A bakery packs **32** boxes of bagels. Each box holds **18** bagels. How many bagels is that?

**Equation**  $32 \times 18 = b$

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One way  $576$  bagels

## Lesson 4.9 · Multiplication stories

**9. Write an equation with a letter for the unknown. Solve.**

A short trail is **215** meters long. A long trail is **4** times as long. How many meters long is the long trail?

Equation  $4 \times 215 = m$

**860** meters

Lesson 4.9 · Multiplication stories

## 10. Multiply.

|       |   |   |   |   |   |  |
|-------|---|---|---|---|---|--|
|       |   |   |   | 1 | 2 |  |
|       |   |   | 4 | 2 | 7 |  |
| x     |   |   |   | 3 | 6 |  |
| <hr/> |   |   |   |   |   |  |
|       |   | 2 | 5 | 6 | 2 |  |
| +     | 1 | 2 | 8 | 1 | 0 |  |
| <hr/> |   |   |   |   |   |  |
|       | 1 | 5 | 3 | 7 | 2 |  |

Lesson 4.7 · 3-digit times 2-digit