

# Multiplication

Exit Ticket 3.1: Multiply by multiples of 10, 100 and 1,000



Name \_\_\_\_\_ Exit Ticket 3.1

1. Multiply.

$$60 \times 400 = \underline{\hspace{2cm}}$$

$$30 \times 5,000 = \underline{\hspace{2cm}}$$

$$50 \times 800 = \underline{\hspace{2cm}}$$

2. Write the missing numbers.

$$48 \times 10^2 = \underline{\hspace{2cm}}$$

$$25 \times 10^{\square} = 25,000$$

I can multiply by multiples  
and powers of ten.



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I can multiply by multiples  
and powers of ten.



# Multiplication

## Exit Ticket 3.2: Estimate products



Name \_\_\_\_\_ Exit Ticket 3.2

1. Round each factor to its greatest place. Is the answer reasonable?  
Circle Yes or No.

$$468 \times 36 = 4,212 \quad \text{Yes} \quad \text{No}$$

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

2. Round each factor to its greatest place to estimate.

$$2,906 \times 41$$

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

I can estimate a product  
to check an answer.



Name \_\_\_\_\_ Exit Ticket 3.2

1. Round each factor to its greatest place. Is the answer reasonable?  
Circle Yes or No.

$$468 \times 36 = 4,212 \quad \text{Yes} \quad \text{No}$$

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

2. Round each factor to its greatest place to estimate.

$$2,906 \times 41$$

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

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2. Round each factor to its greatest place to estimate.

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

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$$2,906 \times 41$$

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

I can estimate a product  
to check an answer.



# Multiplication

## Exit Ticket 3.3: 2-digit times 2-digit



Name \_\_\_\_\_ Exit Ticket 3.3

1. Fill in the area model. Then multiply.

|    |             |             |
|----|-------------|-------------|
|    | 60          | 3           |
| 40 | <div></div> | <div></div> |
| 7  | <div></div> | <div></div> |

$$63 \times 47 = \underline{\hspace{2cm}}$$

2. Break apart 29 to multiply.

$$56 \times 29 = 56 \times \underline{\hspace{1cm}} + 56 \times \underline{\hspace{1cm}}$$

$$= \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$$

I can multiply two 2-digit numbers with partial products.



Name \_\_\_\_\_ Exit Ticket 3.3

1. Fill in the area model. Then multiply.

|    |             |             |
|----|-------------|-------------|
|    | 60          | 3           |
| 40 | <div></div> | <div></div> |
| 7  | <div></div> | <div></div> |

$$63 \times 47 = \underline{\hspace{2cm}}$$

2. Break apart 29 to multiply.

$$56 \times 29 = 56 \times \underline{\hspace{1cm}} + 56 \times \underline{\hspace{1cm}}$$

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I can multiply two 2-digit numbers with partial products.



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1. Fill in the area model. Then multiply.

|    |             |             |
|----|-------------|-------------|
|    | 60          | 3           |
| 40 | <div></div> | <div></div> |
| 7  | <div></div> | <div></div> |

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1. Fill in the area model. Then multiply.

|    |             |             |
|----|-------------|-------------|
|    | 60          | 3           |
| 40 | <div></div> | <div></div> |
| 7  | <div></div> | <div></div> |

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I can multiply two 2-digit numbers with partial products.



# Multiplication

## Exit Ticket 3.4: 3- and 4-digit times 2-digit



Name \_\_\_\_\_ Exit Ticket 3.4

1. Fill in the area model. Then multiply.

|    | 300         | 20          | 4           |         |
|----|-------------|-------------|-------------|---------|
| 20 | <div></div> | <div></div> | <div></div> | = _____ |
| 6  | <div></div> | <div></div> | <div></div> | = _____ |

$$324 \times 26 = \underline{\hspace{2cm}}$$

2. Break apart 34 to multiply.

$$1,627 \times 34 = 1,627 \times (\underline{\hspace{1cm}} + \underline{\hspace{1cm}})$$

$$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

I can multiply by a 2-digit number with partial products.



Name \_\_\_\_\_ Exit Ticket 3.4

1. Fill in the area model. Then multiply.

|    | 300         | 20          | 4           |         |
|----|-------------|-------------|-------------|---------|
| 20 | <div></div> | <div></div> | <div></div> | = _____ |
| 6  | <div></div> | <div></div> | <div></div> | = _____ |

$$324 \times 26 = \underline{\hspace{2cm}}$$

2. Break apart 34 to multiply.

$$1,627 \times 34 = 1,627 \times (\underline{\hspace{1cm}} + \underline{\hspace{1cm}})$$

$$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

I can multiply by a 2-digit number with partial products.



Name \_\_\_\_\_ Exit Ticket 3.4

1. Fill in the area model. Then multiply.

|    | 300         | 20          | 4           |         |
|----|-------------|-------------|-------------|---------|
| 20 | <div></div> | <div></div> | <div></div> | = _____ |
| 6  | <div></div> | <div></div> | <div></div> | = _____ |

$$324 \times 26 = \underline{\hspace{2cm}}$$

2. Break apart 34 to multiply.

$$1,627 \times 34 = 1,627 \times (\underline{\hspace{1cm}} + \underline{\hspace{1cm}})$$

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I can multiply by a 2-digit number with partial products.



Name \_\_\_\_\_ Exit Ticket 3.4

1. Fill in the area model. Then multiply.

|    | 300         | 20          | 4           |         |
|----|-------------|-------------|-------------|---------|
| 20 | <div></div> | <div></div> | <div></div> | = _____ |
| 6  | <div></div> | <div></div> | <div></div> | = _____ |

$$324 \times 26 = \underline{\hspace{2cm}}$$

2. Break apart 34 to multiply.

$$1,627 \times 34 = 1,627 \times (\underline{\hspace{1cm}} + \underline{\hspace{1cm}})$$

$$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

I can multiply by a 2-digit number with partial products.



# Multiplication

## Exit Ticket 3.5: The standard algorithm



Name \_\_\_\_\_ Exit Ticket 3.5

1. Multiply.

|       |  |  |   |   |   |
|-------|--|--|---|---|---|
|       |  |  |   |   |   |
|       |  |  | 5 | 8 | 6 |
| x     |  |  |   | 4 | 7 |
| <hr/> |  |  |   |   |   |
|       |  |  |   |   |   |
| +     |  |  |   |   |   |
| <hr/> |  |  |   |   |   |
|       |  |  |   |   |   |

2. In the standard algorithm, circle what the second row is worth.

$68 \times 43$  | 272    2,720    204

I can multiply with the standard algorithm.



Name \_\_\_\_\_ Exit Ticket 3.5

1. Multiply.

|       |  |  |   |   |   |
|-------|--|--|---|---|---|
|       |  |  |   |   |   |
|       |  |  | 5 | 8 | 6 |
| x     |  |  |   | 4 | 7 |
| <hr/> |  |  |   |   |   |
|       |  |  |   |   |   |
| +     |  |  |   |   |   |
| <hr/> |  |  |   |   |   |
|       |  |  |   |   |   |

2. In the standard algorithm, circle what the second row is worth.

$68 \times 43$  | 272    2,720    204

I can multiply with the standard algorithm.



Name \_\_\_\_\_ Exit Ticket 3.5

1. Multiply.

|       |  |  |   |   |   |
|-------|--|--|---|---|---|
|       |  |  |   |   |   |
|       |  |  | 5 | 8 | 6 |
| x     |  |  |   | 4 | 7 |
| <hr/> |  |  |   |   |   |
|       |  |  |   |   |   |
| +     |  |  |   |   |   |
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1. Multiply.

|       |  |  |   |   |   |
|-------|--|--|---|---|---|
|       |  |  |   |   |   |
|       |  |  | 5 | 8 | 6 |
| x     |  |  |   | 4 | 7 |
| <hr/> |  |  |   |   |   |
|       |  |  |   |   |   |
| +     |  |  |   |   |   |
| <hr/> |  |  |   |   |   |
|       |  |  |   |   |   |

2. In the standard algorithm, circle what the second row is worth.

$68 \times 43$  | 272    2,720    204

I can multiply with the standard algorithm.



## Exit Ticket 3.6: Larger factors and zeros

### 1. Multiply.

**2. In the standard algorithm, write what the second row is worth.**

I can multiply larger numbers.



**2. In the standard algorithm, write what the second row is worth.**

I can multiply larger numbers.



**2. In the standard algorithm, write what the second row is worth.**

I can multiply larger numbers.



**2. In the standard algorithm, write what the second row is worth.**

I can multiply larger numbers.



# Multiplication

## Exit Ticket 3.7: Multiplication stories



Name \_\_\_\_\_ Exit Ticket 3.7

1. A box holds **168** nails. How many nails are in **24** boxes?

\_\_\_\_\_ nails

2. A store had **26** boxes of **48** pens. It sold **975**. How many pens are left?

\_\_\_\_\_ pens

I can solve multiplication stories with one or two steps.



Name \_\_\_\_\_ Exit Ticket 3.7

1. A box holds **168** nails. How many nails are in **24** boxes?

\_\_\_\_\_ nails

2. A store had **26** boxes of **48** pens. It sold **975**. How many pens are left?

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I can solve multiplication stories with one or two steps.



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I can solve multiplication stories with one or two steps.



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1. A box holds **168** nails. How many nails are in **24** boxes?

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I can solve multiplication stories with one or two steps.



# Multiplication

Exit Ticket 3.1: Multiply by multiples of 10, 100 and 1,000

Name \_\_\_\_\_ Exit Ticket 3.1

1. Multiply.

$$60 \times 400 = \underline{24,000}$$

$$30 \times 5,000 = \underline{150,000}$$

$$50 \times 800 = \underline{40,000}$$

2. Write the missing numbers.

$$48 \times 10^2 = \underline{4,800}$$

$$25 \times 10^{\boxed{3}} = 25,000$$

I can multiply by multiples  
and powers of ten.



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# Multiplication

## Exit Ticket 3.2: Estimate products

Name \_\_\_\_\_ Exit Ticket 3.2

1. Round each factor to its greatest place. Is the answer reasonable?  
Circle Yes or No.

$$468 \times 36 = 4,212 \quad \text{Yes} \quad \text{No}$$

Estimate 500  $\times$  40 = 20,000

2. Round each factor to its greatest place to estimate.

$$2,906 \times 41$$

$$\underline{3,000} \times \underline{40} = \underline{120,000}$$

I can estimate a product  
to check an answer.



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# Multiplication

## Exit Ticket 3.3: 2-digit times 2-digit



Name \_\_\_\_\_ Exit Ticket 3.3

1. Fill in the area model. Then multiply.

|    |              |            |
|----|--------------|------------|
|    | 60           | 3          |
| 40 | <u>2,400</u> | <u>120</u> |
| 7  | <u>420</u>   | <u>21</u>  |

$$63 \times 47 = \underline{2,961}$$

2. Break apart 29 to multiply.

$$\begin{aligned} 56 \times 29 &= 56 \times \underline{20} + 56 \times \underline{9} \\ &= \underline{1,120} + \underline{504} = \underline{1,624} \end{aligned}$$

One way

I can multiply two 2-digit numbers with partial products.



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1. Fill in the area model. Then multiply.

|    |              |            |
|----|--------------|------------|
|    | 60           | 3          |
| 40 | <u>2,400</u> | <u>120</u> |
| 7  | <u>420</u>   | <u>21</u>  |

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|    |              |            |
|----|--------------|------------|
|    | 60           | 3          |
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One way

I can multiply two 2-digit numbers with partial products.



# Multiplication

Exit Ticket 3.4: 3- and 4-digit times 2-digit

Name \_\_\_\_\_ Exit Ticket 3.4

1. Fill in the area model. Then multiply.

|    | 300   | 20  | 4  |         |
|----|-------|-----|----|---------|
| 20 | 6,000 | 400 | 80 | = 6,480 |
| 6  | 1,800 | 120 | 24 | = 1,944 |

$$324 \times 26 = \underline{8,424}$$

2. Break apart 34 to multiply.

$$1,627 \times 34 = 1,627 \times ( \underline{30} + \underline{4} )$$

One way

$$= \underline{48,810} + \underline{6,508} = \underline{55,318}$$

I can multiply by a 2-digit number with partial products.



Name \_\_\_\_\_ Exit Ticket 3.4

1. Fill in the area model. Then multiply.

|    | 300   | 20  | 4  |         |
|----|-------|-----|----|---------|
| 20 | 6,000 | 400 | 80 | = 6,480 |
| 6  | 1,800 | 120 | 24 | = 1,944 |

$$324 \times 26 = \underline{8,424}$$

2. Break apart 34 to multiply.

$$1,627 \times 34 = 1,627 \times ( \underline{30} + \underline{4} )$$

One way

$$= \underline{48,810} + \underline{6,508} = \underline{55,318}$$

I can multiply by a 2-digit number with partial products.



Name \_\_\_\_\_ Exit Ticket 3.4

1. Fill in the area model. Then multiply.

|    | 300   | 20  | 4  |         |
|----|-------|-----|----|---------|
| 20 | 6,000 | 400 | 80 | = 6,480 |
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|    | 300   | 20  | 4  |         |
|----|-------|-----|----|---------|
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One way

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I can multiply by a 2-digit number with partial products.



# Multiplication

Exit Ticket 3.5: The standard algorithm

Name \_\_\_\_\_ Exit Ticket 3.5

1. Multiply.

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

2. In the standard algorithm, circle what the second row is worth.

$68 \times 43$  | 272 | **2,720** | 204

I can multiply with the standard algorithm.



Name \_\_\_\_\_ Exit Ticket 3.5

1. Multiply.

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

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1. Multiply.

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

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

2. In the standard algorithm, circle what the second row is worth.

$68 \times 43$  | 272 | **2,720** | 204

I can multiply with the standard algorithm.



# Multiplication

## Exit Ticket 3.6: Larger factors and zeros

Name \_\_\_\_\_ Exit Ticket 3.6

1. Multiply.

|       |   |   |   |   |   |
|-------|---|---|---|---|---|
|       |   |   | 1 |   |   |
|       |   |   | 2 |   |   |
|       |   |   | 4 |   |   |
|       |   | 4 | 0 | 8 |   |
| ×     |   | 2 | 3 | 6 |   |
| <hr/> |   |   |   |   |   |
|       |   | 2 | 4 | 4 | 8 |
|       | 1 | 2 | 2 | 4 | 0 |
| +     | 8 | 1 | 6 | 0 | 0 |
| <hr/> |   |   |   |   |   |
|       | 9 | 6 | 2 | 8 | 8 |

2. In the standard algorithm, write what the second row is worth.

$$3,075 \times 46 \quad \text{Second row} \quad \underline{123,000}$$

I can multiply larger numbers.



Name \_\_\_\_\_ Exit Ticket 3.6

1. Multiply.

|       |   |   |   |   |   |
|-------|---|---|---|---|---|
|       |   |   | 1 |   |   |
|       |   |   | 2 |   |   |
|       |   |   | 4 |   |   |
|       |   | 4 | 0 | 8 |   |
| ×     |   | 2 | 3 | 6 |   |
| <hr/> |   |   |   |   |   |
|       |   | 2 | 4 | 4 | 8 |
|       | 1 | 2 | 2 | 4 | 0 |
| +     | 8 | 1 | 6 | 0 | 0 |
| <hr/> |   |   |   |   |   |
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|       |   |   | 2 |   |   |
|       |   |   | 4 |   |   |
|       |   | 4 | 0 | 8 |   |
| ×     |   | 2 | 3 | 6 |   |
| <hr/> |   |   |   |   |   |
|       |   | 2 | 4 | 4 | 8 |
|       | 1 | 2 | 2 | 4 | 0 |
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|       |   | 4 | 0 | 8 |   |
| ×     |   | 2 | 3 | 6 |   |
| <hr/> |   |   |   |   |   |
|       |   | 2 | 4 | 4 | 8 |
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# Multiplication

## Exit Ticket 3.7: Multiplication stories



Name \_\_\_\_\_ Exit Ticket 3.7

1. A box holds **168** nails. How many nails are in **24** boxes?

$$168 \times 24 = 4,032$$

**4,032** nails

2. A store had **26** boxes of **48** pens. It sold **975**. How many pens are left?

$$26 \times 48 = 1,248$$

$$1,248 - 975 = 273$$

One way

**273** pens

I can solve multiplication stories with one or two steps.



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