# تدريبات الدروس الأول والثاني والثالث من الوحدة الخامسة منهج ريفيل





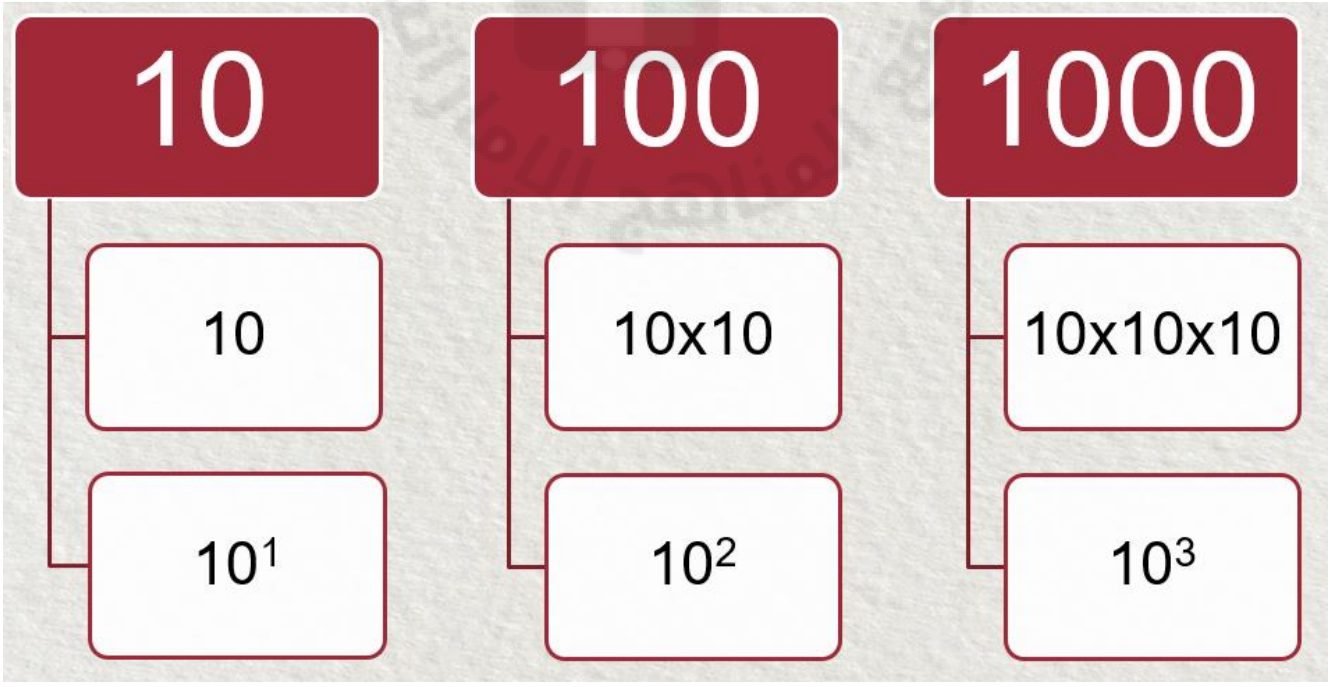
| المزيد من الملفات بحسب الصف الخامس والمادة رياضيات في الفصل الأول | |
|---|---|
| 1 | حل تدريبات الدرسين الأول والثاني من الوحدة الرابعة منهج ريفيل |
| 2 | تدريبات الدرسين الأول والثاني من الوحدة الرابعة منهج ريفيل |
| 3 | حل تدريبات الدرس الرابع decimals add to Strategies من الوحدة الرابعة منهج ريفيل |
| 4 | تدريبات الدرس الرابع decimals add to Strategies من الوحدة الرابعة منهج ريفيل |
| 5 | حل تدريبات الدرس الخامس decimals of substraction Pepresent من الوحدة الرابعة منهج ريفيل |

# Unit 5 – L 1

Lesson 5-1

## Understand Powers and Exponents

**Book Page: 135**



# 10 x 10 x 10 x 10

## Multiplication Expression

Exponent

$10^4 = 10000$

Base

Product

**Work Together**

Write $10^8$ as a multiplication expression. Then, find the product.

**Write the exponential form as a multiplication expression.**

1. $10^4$
2. $10^2$
3. $10^3$
4. $10^6$

**Write the exponential form.**

5. $10 \times 10 \times 10 =$ _____
6. $10 \times 10 \times 10 \times 10 \times 10 =$ _____
7. $10 \times 10 \times 10 \times 10 =$ _____
8. $10 \times 10 =$ _____

**Write the exponential form of each power of 10.**

9. $10 =$ _____
10. $1{,}000 =$ _____
11. $100 =$ _____
12. $10{,}000 =$ _____

13. Rachel finds the value of $10^5$ as shown. Do you agree with her solution? Tell why.

$10^5 = 10 \times 5 = 50$

14. **STEM Connection** Grace reviewed $10^6$ lines of a computer program. How many lines did she review? Write the product.

Lesson **5-1**

# Exit Ticket

1. Which exponential form matches each power of 10? Not all exponential forms will be used.

| | |
|---|---|
| | $10^1$ |
| 10,000 | $10^2$ |
| 1,000 | $10^3$ |
| 10 | $10^4$ |
| 100,000 | $10^5$ |
| | $10^6$ |

2. Which is equivalent to 104? Choose all that apply.

**A.** $10 \times 4$ **B.** $10 \times 10 \times 10 \times 10$

**C.** $10 \times 10 \times 10 \times 10 \times 10$ **D.** 1,000

**E.** 10,000 **F.** 100,000

3. Which is equivalent to 1,000,000? Choose all that apply.

**A.** $10 \times 6$ **B.** $10 \times 10 \times 10 \times 10 \times 10$

**C.** $10 \times 10 \times 10 \times 10 \times 10 \times 10$ **D.** $10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$

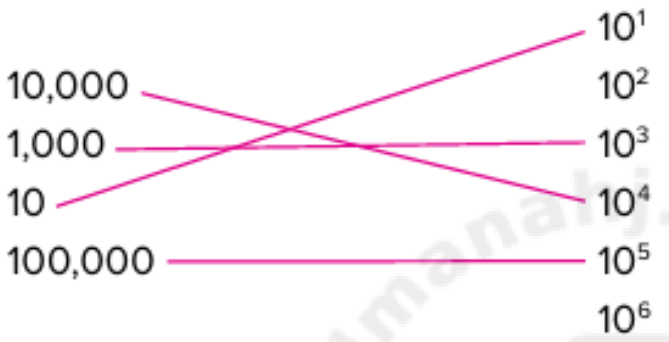
**E.** $10^6$ **F.** $10^7$

Lesson **5-1**

# Exit Ticket

Name _____

**1.** Which exponential form matches each power of 10? Not exponential forms will be used.




**2.** Which is equivalent to $10^4$? Choose all that apply.

**A.** $10 \times 4$

**B.** $10 \times 10 \times 10 \times 10$

**C.** $10 \times 10 \times 10 \times 10 \times 10$

**D.** 1,000

**E.** 10,000

**F.** 100,000

**3.** Which is equivalent to 1,000,000? Choose all that apply.

**A.** $10 \times 6$

**B.** $10 \times 10 \times 10 \times 10 \times 10$

**C.** $10 \times 10 \times 10 \times 10 \times 10 \times 10$

**D.** $10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$

**E.** $10^6$

**F.** $10^7$

# Unit 2 – L 2

Lesson 5-2

## Patterns When Multiplying a Whole Number by Powers of 10

**Book Page: 139**

$15 \times 10{,}000$

$15 \times 10 \times 10 \times 10 \times 10$

$15 \times 10^4$

150,000

## Learn

The distances from these planets to the Sun are shown as multiplication expressions.

**How can you determine the value of these expressions?**

**Mercury**
about $36 \times 10^6$ mi

**Neptune**
about $3 \times 10^9$ mi

First, determine the distance from Mercury to the Sun. Look for pattterns when multiplying by a power of 10.

$36 \times 10^6 = 36 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$

$= 36 \times 1{,}000{,}000$

$= 36{,}000{,}000$

*The exponent is the same as the number of zeros in the product.*

The distance from Mercury to the Sun is about **36,000,000 miles.**

You can use patterns to determine the distance from Neptune to the Sun.

$3 \times 10^9 = 3 \times 1{,}000{,}000{,}000$

$= 3{,}000{,}000{,}000$

The distance from Neptune to the Sun is about 3,000,000,000 miles.

**Math is... Structure**

Why does the place of the digits in a number shift each time you multiply by 10?

When multiplying by powers of 10, there is a pattern in the number of zeros in the product in relationship to the exponent.

### Work Together

Find the value of each expression. Explain how you used patterns to help you.

$32 \times 10^2$ $32 \times 10^3$ $32 \times 10^4$

**What is the product? Use patterns to solve.**

1. $12 \times 10 =$ _____
   $12 \times 100 =$ _____
   $12 \times 1{,}000 =$ _____

2. $24 \times 1{,}000 =$ _____
   $24 \times 10{,}000 =$ _____
   $24 \times 100{,}000 =$ _____

3. $33 \times 10^2 =$ _____
   $33 \times 10^3 =$ _____
   $33 \times 10^4 =$ _____

4. $57 \times 10^4 =$ _____
   $57 \times 10^5 =$ _____
   $57 \times 10^6 =$ _____

**What is the product?**

5. $23 \times 10^3$

6. $581 \times 10^2$

7. $60 \times 10^4$

8. $103 \times 10^2$

**What is the unknown factor?**

9. $571 \times$ _____ $= 5{,}710$

10. $43 \times$ _____ $= 4{,}300{,}000$

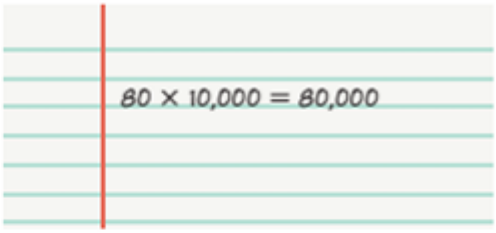
11. $6 \times$ _____ $= 6{,}000$

12. $28 \times$ _____ $= 280{,}000$

13. How can you describe the relationship between the equations shown?

$6 \times 10^5 = 600{,}000$
$6 \times 10^7 = 60{,}000{,}000$
$6 \times 10^9 = 6{,}000{,}000{,}000$

**14. Error Analysis** Carol says the equation that she wrote is correct. How do you respond to her?




**15.** Which equations are *true*? Circle all that apply.

**A.** $6 \times 100 = 6 \times 10 \times 10 \times 10$

**B.** $10{,}000 \times 4 = 10 \times 10 \times 10 \times 10 \times 4$

**C.** $15 \times 10^3 = 1{,}500$

**D.** $70 \times 10 \times 10 = 7{,}000$

**16. Extend Your Thinking** Find the unknown factor that is a whole number. Explain your thinking.

$$? \times 10^5 = 56{,}300{,}000$$

**Q.3.** Which is equivalent to $75 \times 10^4$?

(a) 750 (b) 75,000

(c) 750,000 (d) 7,500,000

## RVL 5-05-02 Digital Exit Ticket

1) Enter the answers.
What are the products. Use patterns to find the values.

$36 \times 10 =$ _____

$36 \times 100 =$ _____

$36 \times 1{,}000 =$ _____

2) Choose the answer.
Which is equivalent to $24 \times 10^4$?

- ○ 240
- ○ 24,000
- ○ 240,000
- ○ 2,400,000

3) Choose the answer.
Which is equivalent to $98 \times 10$?

- ○ 98
- ○ 980
- ○ 9,800
- ○ 980,000

4) Enter the answer.
Which power of 10 completes the equation?

$43 \times$ _____ $= 4{,}300$

5) Choose the answer.
Which exponential form completes the equation?

$27 \times$ ___ $= 2{,}700{,}000$

- ○ $10^8$
- ○ $10^7$
- ○ $10^6$
- ○ $10^5$

Lesson **5-2**

# Exit Ticket

Name _____

1. What is the products of the equations? Use patterns to find the values.

   $36 \times 10 =$ **360**
   $36 \times 100 =$ **3,600**
   $36 \times 1{,}000 =$ **36,000**

2. Which is equivalent to $24 \times 10^4$?

   **A.** 240
   **B.** 24,000
   **C.** 240,000
   **D.** 2,400,000

3. Which is equivalent to $98 \times 10$?

   **A.** 98
   **B.** 980
   **C.** 9,800
   **D.** 980,000

4. Which power of 10 completes the equation?

   $43 \times$ **100** $= 4{,}300$

5. Which exponential form completes the equation?

   $27 \times$ **$10^5$** $= 2{,}700{,}000$

# Unit 5 – L 3

## Lesson 5-3
## Estimate Products of Multi-Digit Factors

**Book Page: 143**

**Estimate the product.**

1. 643 × 18

2. 325 × 62

3. 438 × 27

4. 572 × 49

5. On a school trip, 54 students went to a museum. Each ticket cost $23. About how much did all students spend on tickets?

6. The town library has 478 shelves. Each shelf holds 38 books. About how many books does the library have?

7. A vendor at a fair is selling her paintings for $23 each. Over the course of the fair, 339 people purchase her paintings. About how much did the vendor earn over the course of the fair?

8. The fifth graders sold 405 baked goods at the bake sale. About how much did the fifth graders earn?


10. Which equation represents a reasonable estimate for 658 × 19? Explain.

A. 700 × 10 = 7,000

B. 650 × 20 = 13,000

C. 600 × 10 = 6,000

11. If you estimate the product of 246 × 38, will the estimate be greater using rounded numbers or compatible numbers? Why?

Lesson **5-3**

# Exit Ticket

1. Which is the most reasonable **estimate** for 58 × 372?

   **A.** 50 × 300 **B.** 60 × 400

   **C.** 500 × 400 **D.** 600 × 300

2. Which is the most reasonable **estimate** for 37 × 86?

   **A.** 30 × 80 **B.** 30 × 90

   **C.** 40 × 80 **D.** 40 × 90

3. **Estimate** the product. 142 × 17

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4. A movie ticket costs $12. For one day, a theater sold 478 tickets. **About how much** money did the theater receive that day?

   **A.** $500 **B.** $5,000 **C.** $50,000

5. A rectangular field measures 768 feet long and 88 feet wide. About **how much is the area** of the field?

Lesson **5-3**

# Exit Ticket

Name _____

1. Which is the most reasonable estimate for 58 × 372?

   **A.** 50 × 300 **B.** 60 × 400

   **C.** 500 × 400 **D.** 600 × 300

2. Which is the most reasonable estimate for 37 × 86?

   **A.** 30 × 80 **B.** 30 × 90

   **C.** 40 × 80 **D.** 40 × 90

3. What is the estimate product of the expression?

   142 × 17

   **Sample answer: 100 × 20 = 2,000**

4. A movie ticket costs $12. During one day, a theater sold 478 tickets. About how much money did the theater receive that day?

   **A.** $500

   **B.** $5,000

   **C.** $50,000

   **D.** $500,000

5. A rectangular field measures 768 feet long and 88 feet wide. About how much is the area of the field?

   **Sample answer: 800 × 90 = 72,000 square feet**