

حل تدريبات الدروس الأول والثاني والثالث من الوحدة الخامسة منهج ريفيل



تم تحميل هذا الملف من موقع المناهج الإماراتية

موقع المناهج ← المناهج الإماراتية ← الصف الخامس ← رياضيات ← الفصل الأول ← ملفات متنوعة ← الملف

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المزيد من مادة
رياضيات:

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التواصل الاجتماعي بحسب الصف الخامس



صفحة المناهج
الإماراتية على
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

المزيد من الملفات بحسب الصف الخامس والمادة رياضيات في الفصل الأول

تدريبات الدروس الأول والثاني والثالث من الوحدة الخامسة منهج ريفيل

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

Unit 5 – L 1

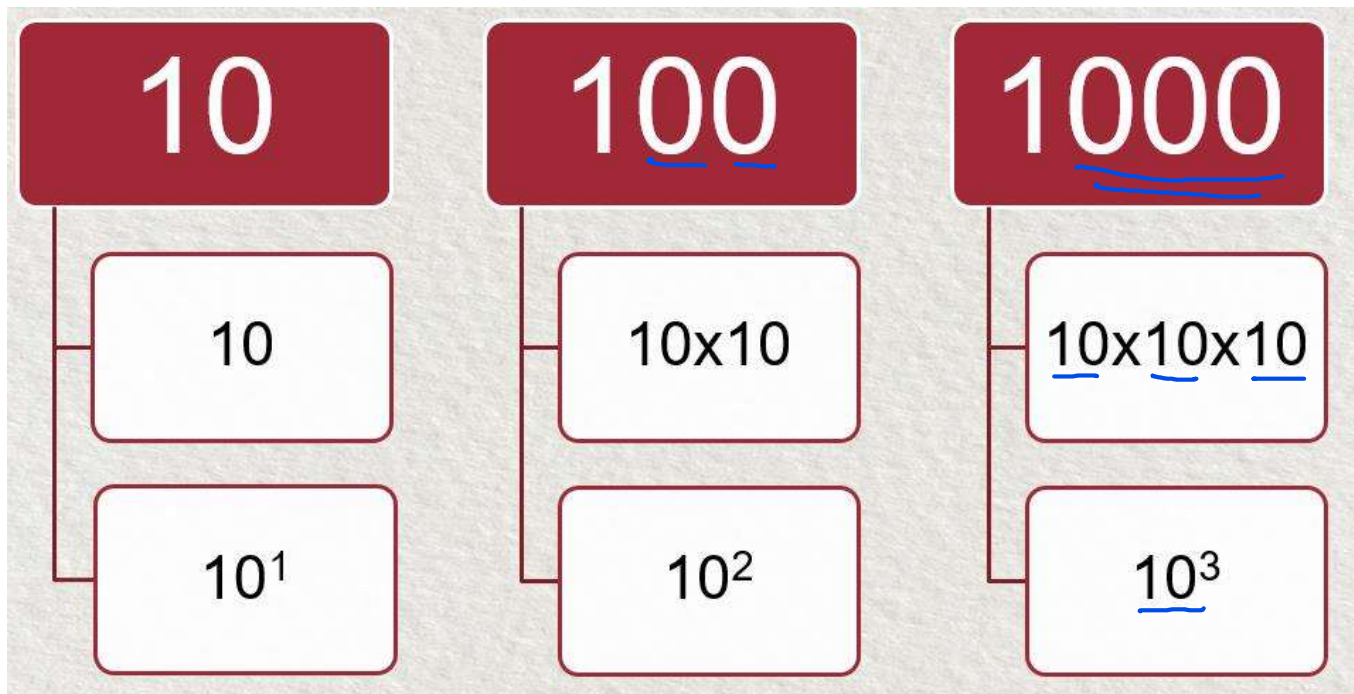
Lesson 5-1 Understand Powers and Exponents

10000

10^4

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

Book Page: 135



10 x 10 x 10 x 10

Multiplication Expression

10 Power 4

Exponent

$$10^4 = 10000$$

Base

Product



حاصل ضرب #
نتیج الضرب

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

$$\begin{aligned} 10^8 &= 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \\ &= 100,000,000 \end{aligned}$$



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

1. 10^4 ' $10 \times 10 \times 10 \times 10$

2. 10^2 10×10

3. 10^3 $10 \times 10 \times 10$

4. 10^6 $10 \times 10 \times 10 \times 10 \times 10 \times 10$

Write the **exponential form**.

5. $10 \times 10 \times 10 = 10^3$

6. $10 \times 10 \times 10 \times 10 \times 10 = 10^5$

7. $10 \times 10 \times 10 \times 10 = 10^4$

8. $10 \times 10 = 10^2$

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

9. $10 = 10^1$

10. $1,000 = 10^3$

11. $100 = 10^2$

12. $10,000 = 10^4$

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

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

$100,000$ The correct

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

$10^6 = 1,000,000$



Lesson 5-1

Exit Ticket

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

10,000

1,000

10

100,000

10^1

10^2

10^3

10^4

10^5

10^6

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

A. 10×4

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. 10×6

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

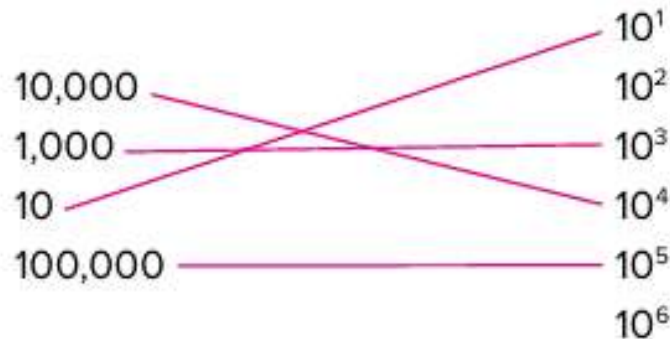


Lesson 5-1

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. 10×4
☒ 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. 10×6
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

$$\underline{34} \times 10^4$$

whole

$$15 \times 10,000$$

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

$$15 \times 10^4$$

$$\underline{150,000}$$



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 36×10^6 mi



Neptune
about 3×10^9 mi

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

$$\begin{aligned} 36 \times 10^6 &= 36 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \\ &= 36 \times 1,000,000 \\ &= 36,000,000 \end{aligned}$$

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.

$$\begin{aligned} 3 \times 10^9 &= 3 \times 1,000,000,000 \\ &= 3,000,000,000 \end{aligned}$$

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.

32×10^2	32×10^3	32×10^4
32×100	32×1000	32×10000
3200	32000	320000



What is the product? Use patterns to solve.

1. $12 \times 10 = \underline{120}$

2. $24 \times 1,000 = \underline{24,000}$

$12 \times 100 = \underline{1,200}$

$24 \times 10,000 = \underline{240,000}$

$12 \times 1,000 = \underline{12,000}$

$24 \times 100,000 = \underline{2,400,000}$

3. $33 \times 10^2 = \underline{3,300}$

4. $57 \times 10^4 = \underline{570,000}$

$33 \times 10^3 = \underline{33,000}$

$57 \times 10^5 = \underline{5,700,000}$

$33 \times 10^4 = \underline{330,000}$

$57 \times 10^6 = \underline{570,000,000}$

What is the product?

5. $23 \times 10^3 = \underline{23,000}$

6. $581 \times 10^2 = \underline{58,100}$

7. $60 \times 10^4 = \underline{600,000}$

8. $103 \times 10^2 = \underline{10,300}$

What is the unknown factor?

9. $571 \times \underline{10} = 5,710$

10. $43 \times \underline{100,000} = 4,300,000$

11. $6 \times \underline{1,000} = 6,000$

12. $28 \times \underline{10,000} = 280,000$

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

$6 \times 10^5 = 600,000$

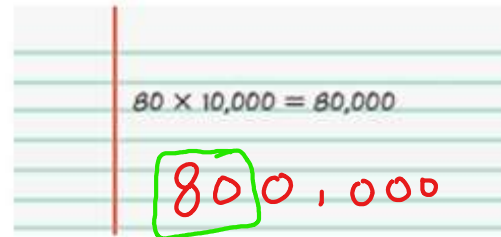
$6 \times 10^7 = 60,000,000$

$6 \times 10^9 = 6,000,000,000$

When power increase by 2
Number of zeroes
increase by 2.



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



$80 \times 10,000 = 80,000$

$800,000$

The correct 800,000

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.

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

↓
563

Q.3. Which is equivalent to 75×10^4 ?

- (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.

$$36 \times 10 = \underline{\hspace{2cm}}$$

$$36 \times 100 = \underline{\hspace{2cm}}$$

$$36 \times 1,000 = \underline{\hspace{2cm}}$$

2) Choose the answer.

Which is equivalent to 24×10^4 ?

- ☐ 240
- ☐ 24,000
- ☐ 240,000
- ☐ 2,400,000

3) Choose the answer.

Which is equivalent to 98×10 ?

- ☐ 98
- ☐ 980
- ☐ 9,800
- ☐ 980,000

4) Enter the answer.

Which power of 10 completes the equation?

$$43 \times \underline{\hspace{2cm}} = 4,300$$

5) Choose the answer.

Which exponential form completes the equation?

$$27 \times \underline{\hspace{1cm}} = 2,700,000$$

- ☐ 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.

$$36 \times 10 = \underline{360}$$

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

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

2. Which is equivalent to 24×10^4 ?

A. 240

B. 24,000

☒ C. 240,000

D. 2,400,000

3. Which is equivalent to 98×10 ?

A. 98

☒ B. 980

C. 9,800

D. 980,000

4. Which power of 10 completes the equation?

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

5. Which exponential form completes the equation?

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

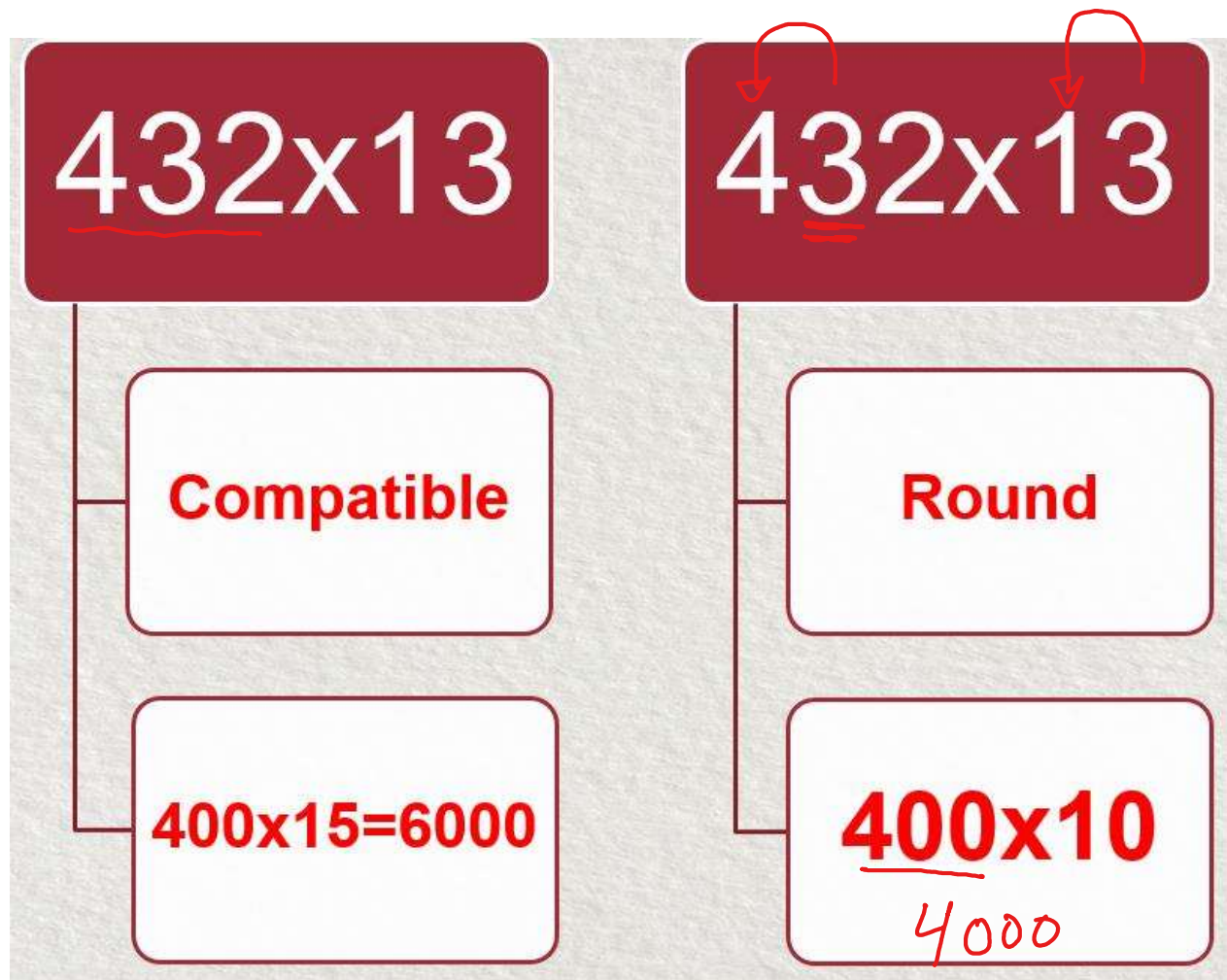


تَقْرِبْ

Unit 5 – L 3

Lesson 5-3 Estimate Products of Multi-Digit Factors

Book Page: 143



by Rounding

Estimate the product.

1. $\underline{6}43 \times 1\underline{8}$

$600 \times 20 = 12000$

2. 325×62

$300 \times 60 = 18000$

3. 438×27

$400 \times 30 = 12000$

4. 572×49

$600 \times 50 = 30,000$

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

54×23

$50 \times 20 = 1000 \$$

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

478×38

$500 \times 40 = 20,000 \text{ books}$



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?

$$339 \times 23$$

$$300 \times 20 = 6000 \$$$

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



$$405 \times 12$$

$$400 \times 10 = 4000 \$$$

about 4000

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

A. $700 \times 10 = 7,000$

B. $650 \times 20 = 13,000$ ✓

C. $600 \times 10 = 6,000$

by compatible ← 650

$$700 \times 20$$

← الأقرب ←

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

Compatible

$$250 \times 40$$

$$= 10000 \quad \checkmark$$

Round

$$200 \times 40 = 8000$$



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?

$$142 \times 17$$

Sample answer: $100 \times 20 = 2,000$

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: $800 \times 90 = 72,000$ square feet

