

شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية



حل مراجعة امتحان نهائي وفق الهيكل الوزاري ريفيل

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التواصل الاجتماعي بحسب الصف الرابع

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روابط مواد الصف الرابع على تلغرام

المزيد من الملفات بحسب الصف الرابع والمادة رياضيات في الفصل الأول

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2.1

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What are the values of the digits in the number?

1. 1,489

1: 1,0004: 4008: 809: 99

2. 98,124

1: 1002: 204: 48: 8,0009: 90,000

11. What is the value of the digit 2 in 143,287? (Lesson 2-1)

200

2.1

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How can you write the number in expanded form?

3. 530,879

 $500,000 + 30,000 + 800 + 70 + 9$ 

4. 6,216

 $6,000 + 200 + 10 + 6$ 

2.4

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What is your estimate? Round the number as indicated.

1. 478,309 to the nearest thousand

478,000

2. 105,201 to the nearest hundred thousand

100,000

3. 95,550 to the nearest ten thousand

100,000

4. 132,847 to the nearest thousand

133,000

## Round

How can you estimate the sum or difference?

Explain your strategy.

1.  $12,258 + 14,926 = 20,000$       2.  $5,246 - 392 = 4,600$

$10,000 + 10,000 = 20,000$

$5,000 - 400 = 4,600$

How can you estimate the sum or difference? Use a calculator to find the actual answer. Circle the estimate closest to the actual sum or difference.

	Rounding	Front-end estimation
3. $8,303 - 2,789 = ?$	$8,000 - 3,000 =$	5,000
4. $3,783 + 1,416 = ?$	$4,000 + 1,000 =$	5,000
5. $3,155 + 2,205 = ?$	$3,000 + 2,000 =$	5,000
6. $9,875 - 4,968 = ?$	$10,000 - 5,000 =$	5,000
7. $4,228 + 986 = ?$	$4,000 + 1,000 =$	5,000

What is the sum?

1.  $2,582 + 493 =$  \_\_\_\_\_

$$\begin{array}{r} \phantom{1} \phantom{1} \\ 2,582 \\ + 493 \\ \hline 3,075 \end{array}$$

2.  $476 + 8,719 =$  \_\_\_\_\_

$$\begin{array}{r} \phantom{1} \\ 476 \\ + 8,719 \\ \hline 9,195 \end{array}$$

3.  $1,945 + 3,289 =$  \_\_\_\_\_

$$\begin{array}{r} \phantom{1} \phantom{1} \\ 1,945 \\ + 3,289 \\ \hline 5,234 \end{array}$$

4.  $12,017 + 5,308 =$  \_\_\_\_\_

$$\begin{array}{r} \phantom{1} \\ 12,017 \\ + 5,308 \\ \hline 17,325 \end{array}$$

5. 
$$\begin{array}{r} \phantom{1} \\ 26,118 \\ + 11,043 \\ \hline 37,161 \end{array}$$

6. 
$$\begin{array}{r} 47,621 \\ + 21,345 \\ \hline 68,966 \end{array}$$

7. 
$$\begin{array}{r} \phantom{1} \\ 101,253 \\ + 27,285 \\ \hline 128,538 \end{array}$$

What is the sum? Use an algorithm to solve.

$$\begin{array}{r} 1) \quad 4,380 \\ + \quad 612 \\ \hline 4,992 \end{array}$$

$$\begin{array}{r} 2) \quad 12,943 \\ + \quad 4,036 \\ \hline 16,979 \end{array}$$

$$\begin{array}{r} 3) \quad 42,818 \\ + \quad 7,120 \\ \hline 49,938 \end{array}$$

$$\begin{array}{r} 4) \quad 8,405 \\ + \quad 1,571 \\ \hline 9,976 \end{array}$$

$$\begin{array}{r} 5) \quad 7,364 \\ + \quad 2,321 \\ \hline 9,685 \end{array}$$

$$\begin{array}{r} 6) \quad 4,129 \\ + \quad 2,530 \\ \hline 6,659 \end{array}$$

How can you decompose to subtract? Find the difference.

1.  $2,532 - 1,301 =$  \_\_\_\_\_

$$\begin{array}{r} 2,532 \\ - 1,301 \\ \hline 1,231 \end{array}$$

2.  $6,489 - 2,472 =$  \_\_\_\_\_

$$\begin{array}{r} 6,489 \\ - 2,472 \\ \hline 4,017 \end{array}$$

3.  $8,018 - 7,659 =$  \_\_\_\_\_

$$\begin{array}{r} 79 \mid 0 \mid 18 \\ 8,018 \\ - 7,659 \\ \hline 359 \end{array}$$

4.  $11,023 - 1,414 =$  \_\_\_\_\_

$$\begin{array}{r} 0 \mid 10 \mid 18 \\ 11,023 \\ - 1,414 \\ \hline 9,609 \end{array}$$

How can you adjust to subtract? Find the difference.

5.  $12,469 - 10,212 =$  \_\_\_\_\_

$$\begin{array}{r} 12,469 \\ - 10,212 \\ \hline 02,257 \end{array}$$

6.  $97,137 - 24,677 =$  \_\_\_\_\_

$$\begin{array}{r} 6 \mid 10 \mid 13 \\ 97,137 \\ - 24,677 \\ \hline 72,460 \end{array}$$

7.  $46,597 - 4,267 =$  \_\_\_\_\_

$$\begin{array}{r} 46,597 \\ - 4,267 \\ \hline 42,330 \end{array}$$

8.  $84,649 - 126 =$  \_\_\_\_\_

$$\begin{array}{r} 84,649 \\ - 126 \\ \hline 84,523 \end{array}$$

What is the difference? Use an algorithm to solve.

1. 
$$\begin{array}{r} 1,558 \\ - 247 \\ \hline 1,311 \end{array}$$

2. 
$$\begin{array}{r} 53,720 \\ - 33,400 \\ \hline 20,300 \end{array}$$

3. 
$$\begin{array}{r} 4,964 \\ - 2,803 \\ \hline 2,161 \end{array}$$

4. 
$$\begin{array}{r} 48,579 \\ - 4,222 \\ \hline 44,357 \end{array}$$

5. 
$$\begin{array}{r} 12,923 \\ - 10,712 \\ \hline 02,211 \end{array}$$

6. 
$$\begin{array}{r} 2,646 \\ - 1,335 \\ \hline 1,311 \end{array}$$

7. 
$$\begin{array}{r} 7,438 \\ - 5,225 \\ \hline 2,213 \end{array}$$

8. 
$$\begin{array}{r} 267,982 \\ - 132,580 \\ \hline 135,402 \end{array}$$

What is the difference? Solve using an algorithm.

1. 
$$\begin{array}{r} 7,5\cancel{7}0 \\ - 453 \\ \hline 7,117 \end{array}$$

2. 
$$\begin{array}{r} 30\cancel{1}71 \\ - 2,893 \\ \hline 30,178 \end{array}$$

3. 
$$\begin{array}{r} 3\cancel{0}119 \\ - 7,983 \\ \hline 3,067 \end{array}$$

4. 
$$\begin{array}{r} 4\cancel{3}82 \\ - 633 \\ \hline 3,749 \end{array}$$

5. 
$$\begin{array}{r} 67,8\cancel{2}1 \\ - 7,954 \\ \hline 59,867 \end{array}$$

6. 
$$\begin{array}{r} 17\cancel{6}905 \\ - 48,273 \\ \hline 123,732 \end{array}$$

7. 
$$\begin{array}{r} 6,8\cancel{0}5 \\ - 4,782 \\ \hline 2,023 \end{array}$$

8. 
$$\begin{array}{r} 7\cancel{6}912 \\ - 77,245 \\ \hline 9,789 \end{array}$$

Use diagrams and equations with variables to solve the problem.

- Jamar needs sequins for costumes for a school play. The king's costume needs 3,250 sequins. The queen's costume needs 1,750 more sequins than the king's costume. The jester's costume needs 750 fewer sequins than the queen's costume. How many sequins does Jamar need for all three costumes?

King 3,250  
 Queen (1,750 + king)  
 Jester (750 - than queen)

King costume + Queen costume + Jester costume

$$3,250 + (1,750 + 3,250) + (Q.C - 750)$$

$$3,250 + 5,000 + (5,000 - 750)$$

$$3,250 + 5,000 + 4,250 = 12,500$$

- There are 550 students eating lunch in four different picnic areas of the zoo. How many students are eating lunch at Flamingo Feast?

Picnic Area	Number of Students
Giraffe Jump	217
Manatee Munch	138
Gorilla Garden	97
Flamingo Feast	?

$$\begin{array}{r}
 12 \\
 217 \\
 138 \\
 + 97 \\
 \hline
 452
 \end{array}$$

$\begin{array}{r} 550 \\ - 452 \\ \hline 098 \end{array}$

- An art teacher had 140 jars of paint. In the first half of the year, her students used 95 jars of paint. The teacher bought 35 more jars of paint. At the end of the year, she had 15 unused jars of paint. How many jars of paint did her students use in the second half of the year?

$$140 - 95 = 45$$

$$45 + 35 = 80$$

$$80 - 15 = 65$$

- The cafeteria distributed 940 cartons of milk at breakfast and 1,670 cartons of milk at lunch. The cafeteria had 7,036 cartons of milk at the end of the day. How many cartons of milk did the cafeteria have at the beginning of the day?

The beginning of the day

940 Breakfast	+	1,670 Lunch	+	7,036 End	= 9,646
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5. What equation can be used to represent the multiplicative comparison statement 24 is 4 times as much as 6?

$$\text{Equation : } 4 \times 6 = 24$$

8. 12 is 2 times as many as 6.

$$\begin{aligned} \text{Means: } & 36 = 9 \times 4 \\ & \text{or } 36 = 4 \times 9 \end{aligned}$$

How can you represent the problem? Draw a bar diagram and write a multiplication equation to solve.

5. Marie read 20 pages of a book last week. She read 2 times as many pages this week as she did last week. How many pages did she read this week?

$$\text{Equation } 2 \times 20 = 40 \text{ pages}$$

6. A tomato plant is 48 inches tall. How many times as tall is the tomato plant as a pepper plant that is 8 inches tall?

$$\text{Equation } 6 \times 8 = 48 \text{ inch tall}$$

$$8 \rightarrow 16 \rightarrow 24 \rightarrow 32 \rightarrow 40 \rightarrow 48$$

7. Dana saved \$63. Dana saved 7 times as much as Julie. How much did Julie save?

$$\text{Equation } 7 \times 9 = \$63 \text{ save}$$

$$7 \rightarrow 14 \rightarrow 21 \rightarrow 28 \rightarrow 35 \rightarrow 42 \rightarrow 49 \rightarrow 56 \rightarrow 63$$

8. Wilani has 12 nickels. Wilani has 6 times as many nickels as Brenda. What is the value of all the coins Wilani and Brenda have? Explain your reasoning.

$$12 = 6 \times \dots 2$$

9. Perry ran 5 times as many minutes as Louis. How many minutes could Perry and Louis have run? Explain your answer.

Sample answer:  
If Perry ran 50 minutes, then Louis ran 10 minutes;  $50 = 5 \times 10$ .

10. **STEM Connection** A welder used 4 meters of metal rod last week and 32 meters of metal rod this week. How many times as many meters of metal rod did the welder use this week compared to last week? Write an equation to represent and solve the problem.



$$32 = 4 \times \dots 8$$

11. There are 12 birds in the apple tree. This is 4 times as many birds as there are in the cherry tree. How many birds are in the cherry tree? Show your work.

$$12 = 4 \times \dots 3$$

3 birds



How can you represent the problem? Draw a bar diagram and write a division equation to solve.

5. A piece of green string is 48 inches long. How many times as long is the green string than a piece of red string that is 8 inches long?

8	.....	$\times 8 = 48$
16		
24		
32		$48 \div 8 = \underline{6}$
40		
48		

6. Ellie has 50 blue blocks. She has 5 times as many blue blocks as white blocks. How many white blocks does she have?

5	35	$5 \times \dots = 50$
10	40	
15	45	
20	50	$50 \div 5 = \underline{10}$
25		
30		

7. Charlie read 4 times as many pages as his sister. Charlie read 36 pages of his book. How many pages did Charlie's sister read? What equations represent the problem? Choose all that apply.

A.  $36 + 4 = ?$

B.  $36 - 4 = ?$

C.  $4 \times ? = 36$

D.  $4 \times 36 = ?$

E.  $? \div 4 = 36$

F.  $36 \div 4 = ?$

9. A rectangular garden is 3 times as long as it is wide. The length of the garden is 9 feet. How wide is the garden?

3	$9 \div 3 = \underline{3}$
6	
9	

10. John ran 18 laps around the track. Sabrina ran 5 laps around the track. John ran twice as far as Mika and Sabrina combined. How many laps did Mika run around the track? Explain.

$18 \div 2 = \underline{9}$	
$9 - 5 = \underline{4}$	4 laps

11. Cory learned that the airport is 5 times farther from his home than the library. He knows the airport is 30 miles from home. What is the distance from Cory's home to the library?

$30 \div 5 = \underline{6}$ miles
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What are all the factor pairs for each number?

1. 14

**1 and 14, 2 and 7**

2. 65

**1 and 65, 5 and 13**

3. 23

**1 and 23**

4. 64

**1 and 64, 2 and 32,  
4 and 16, 8 and 8**

5. 32

**1 and 32, 2 and 16,  
4 and 8**

6. 100

**1 and 100, 2 and 50,  
4 and 25, 5 and 20,  
10 and 10**

Is the number prime or composite? Explain your reasoning.

1. 3

**prime; Sample  
answer: It has exactly  
one factor pair.**

2. 24

**composite; Sample  
answer: It has more  
than one factor pair.**

3. 15

**composite; Sample  
answer: It has more  
than one factor pair.**

4. 31

**prime; Sample  
answer: It has only  
one factor pair.**

5. 87

**composite; Sample  
answer: It has more  
than one factor pair.**

6. 2

**prime; Sample  
answer: It has only  
one factor pair.**

What are the next five multiples of the number?

1. 4, 8, 12, 16,  
20, 24

2. 7, 14, 21, 28,  
35, 42

3. 12, 24, 36, 48,  
60, 72

4. 15, 30, 45, 60,  
75, 90

Choose all that apply.

5. Which numbers are multiples of 4?

A. 14

B. 16

C. 34

D. 64

6. Which numbers are multiples of 9?

A. 91

B. 89

C. 45

D. 18

What's the product? Complete the equation.

7.  $7 \times 300 = \underline{2,100}$

8.  $2 \times 900 = \underline{1,800}$

9.  $8 \times 80 = \underline{640}$

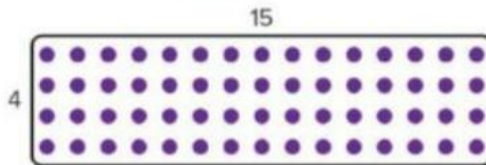
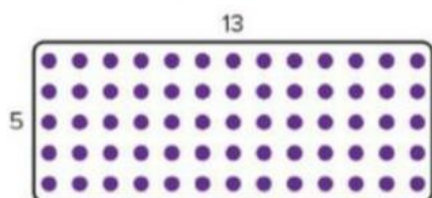
10.  $9 \times 7,000 = \underline{63,000}$

How can you use the Distributive Property to find the product?

Use the array to help you decompose and complete the equation.

**Sample answers shown.**

$$\begin{array}{l}
 1. \quad 5 \times 13 = 5 \times ( \underline{10} + \underline{3} ) \\
 \quad \quad = (5 \times \underline{10}) + (5 \times \underline{3}) \\
 \quad \quad = \underline{50} + \underline{15} \\
 \quad \quad = \underline{65}
 \end{array}
 \qquad
 \begin{array}{l}
 2. \quad 4 \times 15 = 4 \times ( \underline{10} + \underline{5} ) \\
 \quad \quad = (4 \times \underline{10}) + (4 \times \underline{5}) \\
 \quad \quad = \underline{40} + \underline{20} \\
 \quad \quad = \underline{60}
 \end{array}$$



How can you use the Distributive Property to find the product?

Write and solve an equation to show your work.

3.  $7 \times 9$

**Sample answer:**  $7 \times 9 = (7 \times 5) + (7 \times 4)$ ,  
 $7 \times 9 = 63$

4.  $12 \times 8$

**Sample answer:**  $12 \times 8 = (10 \times 8) + (2 \times 8)$ ,  
 $12 \times 8 = 96$

5.  $3 \times 14$

**Sample answer:**  $3 \times 14 = (3 \times 10) + (3 \times 4)$ ,  
 $3 \times 14 = 42$

6.  $5 \times 17$

**Sample answer:**  $5 \times 17 = (5 \times 10) + (5 \times 7)$ ,  
 $5 \times 17 = 85$

9. A package of pencils contains 20 pencils. How many pencils are in 50 packages? **1,000 pencils**

10. Tisha has 90 dimes. How much money does she have in dollars?  
**\$9.00**

11. Samson exercised for 40 minutes each day for 30 days. How many total minutes did he exercise? Show and explain two ways to solve the problem. **1,200 minutes; Sample answers: I can use place value and basic facts.  $40 \times 3 \text{ tens} = 120 \text{ tens}$  or 1,200; I can use the Associative Property of Multiplication.  $40 \times 30 = 4 \times 10 \times 3 \times 10$   
 $40 \times 30 = 4 \times 3 \times 10 \times 10 = 12 \times 10 \times 10 = 1,200$**

How can you use partial products to solve? Show your work.

1.  $98 \times 20 = ?$  **1,960; check students' work**      2.  $42 \times 38 = ?$  **1,596; check students' work**
3.  $\underline{74} \times \underline{57} = (70 \times 50) + (70 \times 7) + (4 \times 50) + (4 \times 7)$

7. Tyrone is using  $(60 \times 50) + (60 \times 9) + (4 \times 50) + (4 \times 9)$  to find the product of two 2-digit factors by using partial products. What two factors could he be multiplying? Explain how you know.  **$64 \times 59$ ; I know from looking at the partial products  $(60 \times 50)$  and  $(4 \times 50)$ , that one of the factors is 64. I also know from looking at  $(4 \times 50)$  and  $(4 \times 9)$  that the other factor is 59.**