

# Math – Grade 4 - Reveal

End of term 1 coverage (2023-2024)

Most important questions

# On My Own

Name \_\_\_\_\_

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How can you compare the numbers? Complete with  $>$ ,  $<$ , or  $=$ .

1.  $5,598 < 55,889$

2.  $123,710 < 123,711$

3.  $628,910 > 628,800$

4.  $709,103 < 709,130$

5.  $6,217 < 6,241$

6.  $43,829 > 43,598$

Is the comparison true or false? Explain your reasoning.

7.  $1,780 < 11,780$

True

8.  $720,301 < 720,031$

False; 720,301 has more hundreds than 720,031.

9.  $34,646 > 321,446$

False

10.  $24,747 < 24,774$

True

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17. Which statements are true?  
Choose all that apply.

A  $2,315 > 1,319$

B  $2,315 < 1,319$

C  $1,319 > 2,315$

D  $2,315 = 1,319$

E  $1,319 < 2,315$

**What is your estimate? Round the number as indicated.**

1. 478,309 to the nearest thousand

**478,000**

105,201 to the nearest hundred thousand

**100,000**

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3. 95,550 to the nearest ten thousand

**100,000**

132,847 to the nearest thousand

**133,000**

0,1,2,3,4 : don't add  
5,6,7,8,9 : add 1

21. What is 392,483 rounded to the nearest thousand?

**392,000**

22. What is 392,483 rounded to the nearest hundred thousand?

**400,000**

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## On My Own

Name \_\_\_\_\_

How can you estimate the sum or difference?

Explain your strategy.

1.  $12,258 + 14,926 = \underline{27,000}$   
 $\underline{12,000} + \underline{15,000}$

27,000; I rounded each number to the thousands.

2.  $5,246 - 392 = \underline{4,800}$   
 $\underline{5,200} - \underline{400}$

4,800; I rounded each number to the hundreds.

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0,1,2,3,4 : don't add  
5,6,7,8,9 : add 1

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. $8,303 - 2,789 = ?$	5,000	<u>6,000</u>
4. $3,783 + 1,416 =$	<u>5,200</u>	4,000
5. $3,155 + 2,205 =$	<u>5,400</u>	5,000
6. $9,875 - 4,968 =$	<u>4,900</u>	5,000
7. $4,228 + 986 =$	<u>5,000</u>	4,900

## On My Own

Name \_\_\_\_\_

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What is the sum? Use an algorithm to solve.

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

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

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

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

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

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

Name \_\_\_\_\_

What is the sum? Use an algorithm to solve.

$$\begin{array}{r} 1. \quad 1,458 \\ + \quad 926 \\ \hline 2,384 \end{array}$$

$$\begin{array}{r} 2. \quad 4,239 \\ + \quad 765 \\ \hline 5,004 \end{array}$$

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$$\begin{array}{r} 3. \quad 2,744 \\ + 1,306 \\ \hline 4,050 \end{array}$$

$$\begin{array}{r} 4. \quad 4,827 \\ + 3,505 \\ \hline 8,332 \end{array}$$

$$\begin{array}{r} 5. \quad 9,087 \\ + 7,668 \\ \hline 16,755 \end{array}$$

$$\begin{array}{r} 6. \quad 12,058 \\ + 4,867 \\ \hline 16,925 \end{array}$$

10. **Extend Your Thinking** Fill in the missing digits. Explain how you found each digit.

$$\begin{array}{r} 2 \boxed{1}, 1 \boxed{5} 9 \\ + \quad \quad 8 \ 4 \ \boxed{5} \\ \hline 2 \ 2, \ \boxed{0} \ 0 \ 4 \end{array}$$

10. The first night of a play 3,568 tickets were sold. The second night 2,984 tickets were sold. How many more tickets were sold on the first night?

**584 tickets**

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11. **Extend Your Thinking** What two different strategies can you use to find the difference? How are the two strategies similar? How are they different?

$$15,736 - 10,302 = \underline{5,434}$$

12. **Error Analysis** Rafael and Sadia solved a problem by adjusting. Which student solved correctly? Explain your answer.

Rafael:  $9,798 - 6,098 = ?$

$9,800 - 6,096 = 3,704$

Sadia:  $9,798 - 6,098 = ?$

$9,800 - 6,100 = 3,700$

**Sadia is correct because she added 2 to each number. So, the difference between the adjusted numbers is the same as the original numbers.**

## On My Own

Name \_\_\_\_\_

Use diagrams and equations with variables to solve the problem.

1. 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?

**12,500 sequins**

2. 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	?

**98 students**



## On My Own

3. 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?

**65 jars**

4. 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?

**9,646 cartons**

## On My Own

1. Which statement can be represented by the equation  $3 \times 9 = 27$ ? Choose the correct answer.
- A. 3 is 3 times as much as 27.
  - B. 27 is 9 times as much as 9.
  - C. 3 is 9 times as much as 27.
  - D. 27 is 3 times as much as 9.
2. Which statements are true? Choose all that apply.
- A. 9 is 2 times as much as 18.
  - B. 2 is 9 times as much as 18.
  - C. 18 is 2 times as much as 9.
  - D. 9 is 18 times as much as 2.
  - E. 18 is 9 times as much as 2.

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## Review

5. Which comparison statement represents the equation  $5 \times 3 = 15$ ? Choose the correct answer. (Lesson 4-1)
- A. 15 is 5 times as many as 3.
  - B. 3 is 5 times as many as 15.
  - C. 5 is 3 times as many as 15.
  - D. 5 is 15 times as many as 3.

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## On My Own



Name \_\_\_\_\_

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What is the unknown number? Write a multiplication equation to represent the comparison. Then solve the equation.

1. 56 is ? times as much as 7.

$$56 = ? \times 7; 8$$

2. 35 is 7 times as many as ?.

$$35 = 7 \times ?; 5$$

3. 24 is 8 times as many as ?.

$$24 = 8 \times ?; 3$$

4. 45 is ? times as much as 9.

$$45 = ? \times 9; 5$$

What is the unknown number? Write a division equation to represent the comparison. Then solve the equation.

1. 24 is 8 times as much as ?.

$$24 \div 8 = ?; 3$$

2. 20 is ? times as much as 5.

$$20 \div 5 = ?; 4$$

3. 18 is ? times as much as 6.

$$18 \div 6 = ?; 3$$

4. 16 is 4 times as much as ?.

$$16 \div 4 = ?; 4$$

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## On My Own

Name \_\_\_\_\_

Is the number prime or composite? Explain your reasoning.

1. 3

prime;  
\_\_\_\_\_ : It has exactly  
one factor pair.

2. 24

composite;  
\_\_\_\_\_ : It has more  
than one factor pair.

3. 15

composite;  
\_\_\_\_\_ It has more  
than one factor pair.

4. 31

prime; \_\_\_\_\_  
\_\_\_\_\_ It has only  
one factor pair.

5. 87

composite;  
\_\_\_\_\_ It has more  
than one factor pair.

6. 2

prime; \_\_\_\_\_  
\_\_\_\_\_ It has only  
one factor pair.



Is the statement true or false? Justify your answer.

7. All even numbers greater than 2 are composite.

true;  
All even numbers are  
products of 2.

8. 1 is a prime number.

false;  
1 has only one factor,  
so it is neither prime  
nor composite.

9. All odd numbers are prime.

false; 15 is not prime.

10. All prime numbers are odd.

false; 2 is a prime  
number and it is even.

11. Find a prime number greater than 50. Explain how you know it is prime.

53 is prime because it has only one  
factor pair 1 and 53

## On My Own

Name \_\_\_\_\_

What are the next five multiples of the number?

- 4, 8, 12, 16,  
20, 24
- 7, 14, 21, 28,  
35, 42
- 12, 24, 36, 48,  
60, 72
- 15, 30, 45, 60,  
75, 90

Choose all that apply.

- Which numbers are multiples of 4?  
 A. 14  
 B. 16  
 C. 34  
 D. 64
- Which numbers are multiples of 9?  
 A. 91  
 B. 89  
 C. 45  
 D. 18

What are the missing multiples?

7. 6, 12, 18, 24, 30, 36

8. 5, 10, 15, 20, 25

9. What do you know about the patterns in the products of 5?  
How can this help you determine if a number is a multiple of 5?

The products of 5 all have the digit 5 or 0 in the ones place. I know a number is a multiple of 5 if the digit in the ones place is 5 or 0.

## On My Own

Name \_\_\_\_\_

What is the pattern unit or rule?



The pattern unit is  
2 blue squares, 1 yellow  
circle, 1 red triangle.

3. 4, 8, 10, 4, 8, 10

The pattern unit is  
4, 8, 10.



The  
pattern rule is add a square  
to each end of the figure.

2. 6, 12, 24, 48, 96

The pattern rule is  
multiply the number  
by 2 to get the next  
number in the pattern.



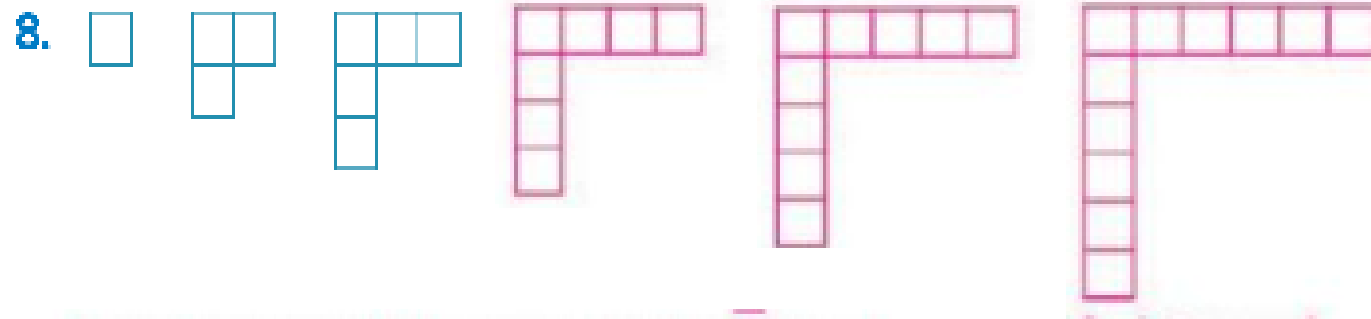
increase each row by  
two blue circles.

6. 12, 20, 28, 36, 44

The pattern rule is add  
8 to each number to get  
the next number.

Extend the pattern to determine three more numbers or shapes in the pattern. How did you find your answer?

7. 36, 30, 24, 18, 12, 6



Add a square to the right and  
bottom sides of the shape.

16. Identify the pattern rule and extend the sequence. (Lesson 5-4)

11, 23, 35, 47, 59, 71, 83

Pattern Rule: Add 12

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## On My Own



Name \_\_\_\_\_

What's the product? Complete the equation.

1.  $4 \times 40 = 4 \times$  4 tens  
= 16 tens  
= 160

2.  $4 \times 400 = 4 \times$  4 hundreds  
= 16 hundreds  
= 1,600

3.  $6 \times 600 = 6 \times$  6 hundreds  
= 36 hundreds  
= 3,600

4.  $6 \times 6,000 = 6 \times$  6 thousands  
= 36 thousands  
= 36,000

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## On My Own

What's the product? Complete the equation.

$$\begin{aligned} 5. \quad 4 \times 20 &= 4 \times 2 \times \underline{10} \\ &= \underline{8} \times \underline{10} \\ &= \underline{80} \end{aligned}$$

$$\begin{aligned} 6. \quad 4 \times 200 &= 4 \times 2 \times \underline{100} \\ &= \underline{8} \times \underline{100} \\ &= \underline{800} \end{aligned}$$

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

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

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

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

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## Review

$$8. \quad 700 \times 8 = ? \text{ (Lesson 6-1)}$$

$$\underline{\underline{5,600}}$$

$$9. \quad 4 \times 6,000 = ? \text{ (Lesson 6-1)}$$

$$\underline{\underline{24,000}}$$

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## On My Own

Name \_\_\_\_\_

What are the values of the digits in the number?

1. 1,489

1: 1,000

4: 400

8: 80

9: 9

2. 98,124

1: 100

2: 20

4: 4

8: 8,000

9: 90,000

How can you describe the relationship between the values of the underlined digits?

3. 258 and 2,180

**2,000 is 10 times as much as 200.**

4. 16,852 and 14,674

**6,000 is 10 times as much as 600.**

How can you describe the relationship between the values of the underlined digits?

5. 12,184 and 541,247

**10,000 is 10 times as much as 1,000.**

6. 453 and 1,333

**30 is 10 times as much as 3.**

What is the greatest number and the least number you can create using the given digits? Use each digit only once. Do not use 0 as the first digit.

7. 3, 5, 8, and 9

**9,853 ; 3,589**

8. 7, 1, 0, 6, 4

**76,410 ; 10,467**

## On My Own



Name \_\_\_\_\_

How can you write the number in standard form?

1. Four hundred thousand, nine hundred thirty 400,930

2. Thirty-four thousand, nine hundred eighty-nine 34,989

How can you write the number in expanded form?

3. 530,879

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

4. 6,216

$$6,000 + 200 + 10 + 6$$

How can you write the number in word form?

5. 205,782

two hundred five thousand, seven hundred eighty-two

6. 1,108,308

one million, one hundred eight thousand, three hundred eight

9. Which number represents sixty-two thousand, four hundred ninety-five? Choose the correct answer. (Lesson 2-2)

A. 620,495

B. 624,95

C. 62,495

D. 62,400,095

8. The indoor water park had 10,242 visitors in January and 11,495 visitors in February. What was the total attendance for the two months?

**21,737 visitors**

9. **Extend Your Thinking** The book bank collected 13,962 books last year. This year it collected 15,185 books. The book bank expects to collect about the same number of books next year as it did this year. About how many books will be collected all three years? Explain your answer. **About 44,000 books.**

10. How can you add  $11,864 + 9,599$  by adjusting the addends?  
Show your strategy.

**21,463**

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11. **Error Analysis** Macy completed the problem below. How can you help Macy understand her error and find the correct sum?

$$\begin{array}{r} 5,331 \\ + 2,702 \\ \hline 3 \\ 30 \\ 100 \\ \hline 7,000 \\ \hline 7,133 \end{array}$$

**Macy did not add the hundreds correctly.**

**The correct sum is 8,033.**

12. **STEM Connection** The weight of a Stellar Sea Lion and a California Sea Lion are shown in the table. What is the total weight of the two sea lions?

**1,421 kg**

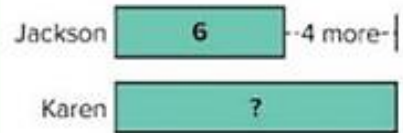
Animal	Weight (kilograms)
Stellar Sea Lion	1,026
California Sea Lion	395

## Learn

Jackson biked 6 miles. Karen biked 4 more miles than Jackson.  
Terry biked 4 times as many miles as Jackson.

**How many miles did Karen and Terry bike?**

Jackson biked 6 miles. Karen biked 4 *more* miles than Jackson.



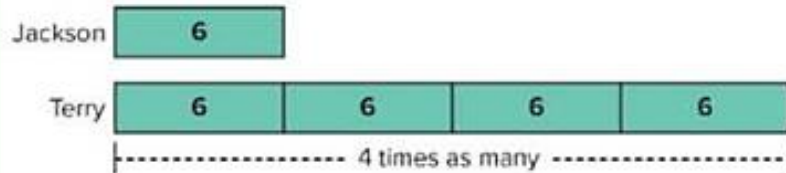
**Math is... Modeling**

How does the bar diagram represent the problem?

$6 + 4 = 10$  So, Karen biked 10 miles.

This is an additive comparison situation.

Jackson biked 6 miles. Terry biked 4 *times as many* miles as Jackson.



$4 \times 6 = 24$  So, Terry biked 24 miles.

This is a multiplicative comparison situation.

## Work Together

Elliot scored 9 points in a basketball game. Michael scored 2 times as many points as Elliot, and Deanna scored 6 more points than Elliot. How many points did Michael and Deanna score? Use equations to represent the problem.

**$9 \times 2 = 18$ ; Michael scored 18 points.**

**$9 + 6 = 15$ ; Deanna scored 15 points.**

## On My Own

What equation can you write to represent and solve the comparison?

1. 8 more than 4

$$4 + 8 = 12$$

2. 3 times as many as 5

$$3 \times 5 = 15$$

3. 2 times as long as 9 feet

$$2 \times 9 = 18$$

4. 5 times as far as 10 miles

$$5 \times 10 = 50$$

6. Raya has 8 pencils in her school box. Miranda has 4 more pencils than Raya. How many pencils does Miranda have?

$$8 + 4 = 12;$$

12 pencils

7. Louisa is 5 feet tall. The tree in her backyard is 4 times as tall as Louisa. How tall is the tree?

$$4 \times 5 = 20;$$

20 feet

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

5. A small bridge is 40 feet long. A new bridge is 3 times as long as the small bridge. How long is the new bridge?

$$3 \times 40 = 120;$$

120 feet

### On My Own

8. Ameer planted 6 plants. David planted 5 times as many. How many plants did David plant? Write an equation to represent the problem.

$$5 \times 6 = 30$$

**30 plants;**

9. Rosa and her brother are playing a game. Rosa scored 8 points and her brother scored 2 points. What are two comparison statements you can make about their scores?

**Rosa scored 4 times as many points as her brother. Rosa scored 6 more points than her brother.**

10. A cat's tail can be 10 inches long. A lion's tail can be 3 times as long. How long can a lion's tail be? Write an equation to represent the problem.

$$3 \times 10 = 30$$

**30 inches**

7. Adrian arranges 12 flowers. He puts the same number of flowers in each vase and can use up to 6 vases. What are two other ways to arrange the flowers?

**4 vases with**

**3 flowers each, 6 vases with 2 flowers each.**

8. Setsuko is organizing 36 books in her bookcase. She wants the same number of books on each shelf and can use up to 3 shelves. What are three different ways she can arrange her books?

**1 shelf with 36 books, 2 shelves with 18 books, and 3 shelves with 12 books.**

9. The soccer coach has 24 trophies to display in a cabinet. How can she display the trophies in equal rows? Find all possible arrangements.

**1 row of 24, 24 rows of 1, 2 rows of 12, 12 rows of 2, 3 rows of 8, 8 rows of 3, 4 rows of 6, 6 rows of 4**

## On My Own

Name \_\_\_\_\_

What are the first five terms of the pattern? Write or draw them.

1. Starting with 40, subtract 4.  
**40, 36, 32, 28, 24**

2. 2 circles, 1 square repeating  
**●●■●●**

3. Starting with 14 dots in a row, subtract 2 dots from each row.



4. Starting with 3, add 6.  
**3, 9, 15, 21, 27**

5. Hector puts 3 photos on the first page of his scrapbook. He increases the number of photos on each page by 3. How many photos are on the pages indicated?

Page	Rule	Number of photos
2	$(1 \times 3) + 3$	6
4	$(3 \times 3) + 3$	12
6	$(5 \times 3) + 3$	18

6. An amphitheater has 5 seats in the floor rows. Each stair row has two more seats on each end than the previous row. How many seats are in the stair rows indicated?

Row	Rule	Number of seats
6	$(6 \times 4) + 5$	29
8	$(8 \times 4) + 5$	37
10	$(10 \times 4) + 5$	45

7. Carton number 1 has 3 pairs of socks. Each carton has double the amount as the previous carton. How many socks are in each of the cartons?

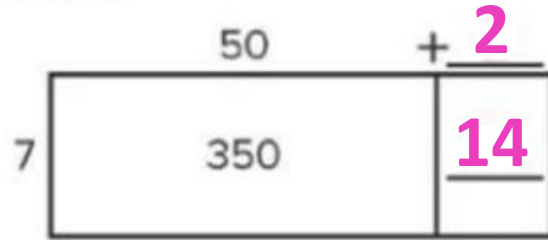
Carton	Rule	Number of socks
1	$1 \times 3$	3
2	$2 \times 3$	6
3	$4 \times 3$	12
4	$8 \times 3$	24

8. Create a pattern with 5 terms. Describe the rule your pattern follows.



How can you decompose a factor and find the partial products?  
Complete the area model and equation to show your work.

5.  $7 \times 52$

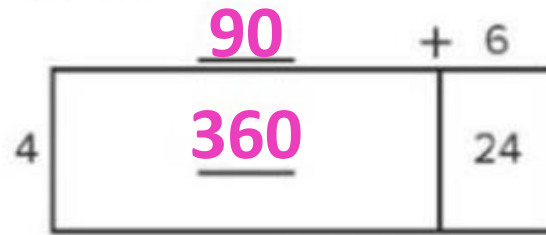


$$7 \times 52 = (7 \times 50) + (7 \times \underline{2})$$

$$7 \times 52 = 350 + \underline{14}$$

$$7 \times 52 = \underline{364}$$

6.  $4 \times 96$



$$4 \times 96 = (4 \times \underline{90}) + (4 \times 6)$$

$$4 \times 96 = \underline{360} + 24$$

$$4 \times 96 = \underline{384}$$

### On My Own

How can you decompose a factor and find the partial products?  
Complete the area model and equation to show your work.

7.  $5 \times 47$

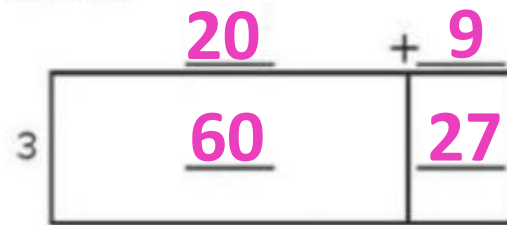


$$5 \times 47 = (5 \times \underline{40}) + (5 \times \underline{7})$$

$$5 \times 47 = \underline{200} + \underline{35}$$

$$5 \times 47 = \underline{235}$$

8.  $3 \times 29$



$$3 \times 29 = (3 \times \underline{20}) + (3 \times \underline{9})$$

$$3 \times 29 = \underline{60} + \underline{27}$$

$$3 \times 29 = \underline{87}$$