الإمارات العربية المتحدة
وزارة التربية والتعليم

Neima school

# welcome to 4TH GRADE!

# EOT1-2025- COVERAGE REVEAL

| | |
|---|---|
| Academic Year<br>العام الدراسي | 2024/2025 |
| | |
| Term<br>الفصل | 1 |
| | |
| Subject<br>المادة | Mathematics/Reveal<br>الرياضيات/ريفيل |
| | |
| Grade<br>الصف | 4 |
| | |
| Stream<br>المسار | General<br>العام |
| | |
| Number of MCQ<br>عدد الأسئلة الموضوعية | 15 |
| | |
| Marks of MCQ<br>درجة الأسئلة الموضوعية | 4 |
| | |
| Number of FRQ<br>عدد الأسئلة المقالية | 5 |
| | |
| Marks per FRQ<br>الدرجات للأسئلة المقالية | (6-11) |
| | |
| Type of All Questions<br>نوع كافة الأسئلة | MCQ/ الأسئلة الموضوعية<br>FRQ/ الأسئلة المقالية |
| | |
| Maximum Overall Grade<br>الدرجة القصوى الممكنة | 100 |
| | |
| Exam Duration - مدة الامتحان | 120 minutes |
| | |
| Mode of Implementation -طريقة التطبيق | Paper-Based |
| | |
| Calculator<br>الآلة الحاسبة | Not Allowed<br>غير مسموحة |
| | |

| | |
|---|---|
| • | Questions might appear in a different order in the actual exam, or on the exam paper. |
| • | قد تظهر الأسئلة بترتيب مختلف في الامتحان الفعلي، أو على ورقة الامتحان . |
| | |
| •• | As it appears in the textbook,and LMS. |
| •• | كما وردت في كتاب الطالب وLMS . |
| | |

| Part 1 | Type Of Questions | MCQ | Marks per each Questions | 4 marks |
|---|---|---|---|---|

| Q1 | Understand the Structure of Multi-Digit Numbers | (1-9) | Page 35 |
|---|---|---|---|

**What are the values of the digits in the number?**

1. 1,489

   1: _____

   4: _____

   8: _____

   9: _____

2. 98,124

   1: _____

   2: _____

   4: _____

   8: _____

   9: _____

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

3. 2̲58 and 2̲,180

4. 1̲6,852 and 14,6̲74

5. 1̲2,184 and 541,2̲47

6. 45̲3 and 1,3̲33

**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

8. 7, 1, 0, 6, 4

9. Is the value of the digit in the hundreds place ten times the value of the digit in the tens place in the number 3,735? Explain.

| Q1 | Understand the Structure of Multi-Digit Numbers | (8,11,13,15) | Page 52 |
|---|---|---|---|

**8.** What is the relationship between the two 4 digits in the number 904,467? (Lesson 2-1)

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

**13.** In which number does the digit 2 have a value that is ten times the value of the digit 2 in 12,738? Choose the correct answer. (Lesson 2-1)

**A.** 26 **B.** 215

**C.** 2,387 **D.** 23,901

**15.** What is the value of each digit in the number shown? (Lesson 2-1)

| Thousands Period | | | Ones Period | | |
|---|---|---|---|---|---|
| hundreds | tens | ones | hundreds | tens | ones |
| | 3 | 4 | 4 | 5 | 6 |

| Q2 | Round Multi-Digit Numbers | (1-6) | Page 47 |
|---|---|---|---|

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

1. 478,309 to the nearest thousand
2. 105,201 to the nearest hundred thousand
3. 95,550 to the nearest ten thousand
4. 132,847 to the nearest thousand

5. **STEM Connection** Denali National Park in Alaska has about 650,000 visitors each year. What could be the actual number of visitors in one year? Explain your reasoning.

6. Some astronauts will travel to the moon, which is 238,855 miles from the earth.
   a. About how many miles will the astronauts travel there and back? Explain the reasoning for your estimate.

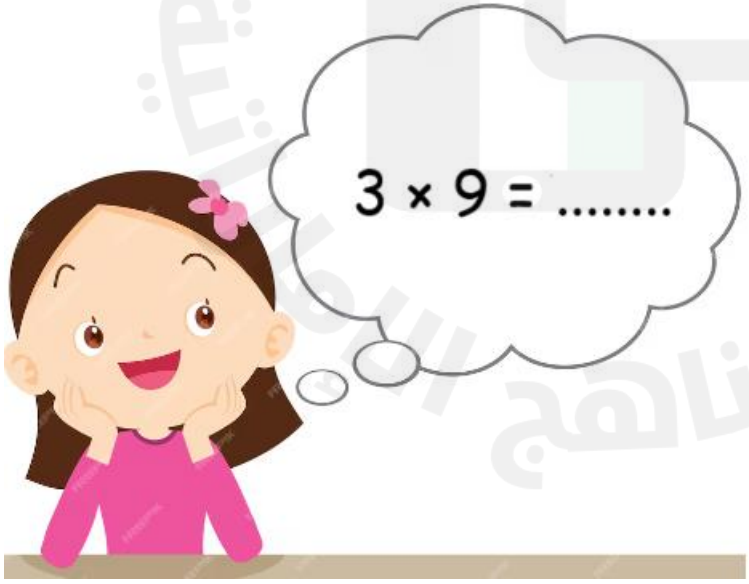
   b. How accurate does the estimate need to be?


| Q2 | Round Multi-Digit Numbers | (18,21,22) | Page 53 |
|---|---|---|---|

**18.** Keisha has about $3,000 in her savings account. What could be the exact amount in her savings account? Justify your answer.
(Lesson 2-4)

**21.** What is 392,483 rounded to the nearest thousand? (Lesson 2-4)

**22.** What is 392,483 rounded to the nearest hundred thousand?
(Lesson 2-4)




| Q3 | Estimate Sums or Differences | (1-9) | Page 61 |
|---|---|---|---|

**How can you estimate the sum or difference?**
**Explain your strategy.**

1. 12,258 + 14,926 = _____

2. 5,246 − 392 = _____

**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 = ? | | |
| 4. | 3,783 + 1,416 = ? | | |
| 5. | 3,155 + 2,205 = ? | | |
| 6. | 9,875 − 4,968 = ? | | |
| 7. | 4,228 + 986 = ? | | |

8. How can you estimate the sum of 2,352 + 8,761?
Explain your strategy.

9. Anton wrote the equation below. Is the difference reasonable?
Explain your thinking.

1,988 − 713 = 275

| Q3 | Estimate Sums or Differences | (10-12) | Page 62 |
|---|---|---|---|

**10.** Springfield School District had 1,578 students last year. This year it has 2,138 students. Carmen says that the number of students increased by over 500 students. Is her statement reasonable?

**11.** **STEM Connection** Hiro helped calculate the weight of two northern fur seal pups. He said the total weight of the two pups was over 15,000 grams. Is Hiro's estimate reasonable? Explain.

| Pup 1 | Pup 2 |
|---|---|
| 8,250 grams | 7,920 grams |

**12.** **Extend Your Thinking** Tanya walked 9,526 steps. Her brother Marcus walked 7,488 steps. Tanya says that she walked about 3,000 more steps than Marcus. Marcus says that the difference is closer to 2,000 steps. Whose estimate do you agree with? Explain why.


| Q4 | Understand an Addition Algorithm | (1-9) | Page 71 |
|---|---|---|---|

When you add or subtract you have to line up the numbers

**What is the sum? Use an algorithm to solve.**

1. 4,380 + 612

2. 12,943 + 4,036

3. 42,818 + 7,120

4. 8,405 + 1,571

5. 7,364 + 2,321

6. 4,129 + 2,530

7. A business purchased a copier for $1,217 and a laptop for $761. How much did the business spend on both items? Use an algorithm to solve.

8. A factory made 64,457 car parts in the first three weeks of the month and 3,502 car parts in the fourth week of the month. How many car parts did the factory make in the four weeks?

9. Aria is calculating 64,203 + 23,562 by using partial sums. Show what her work could look like. Then complete the equation.

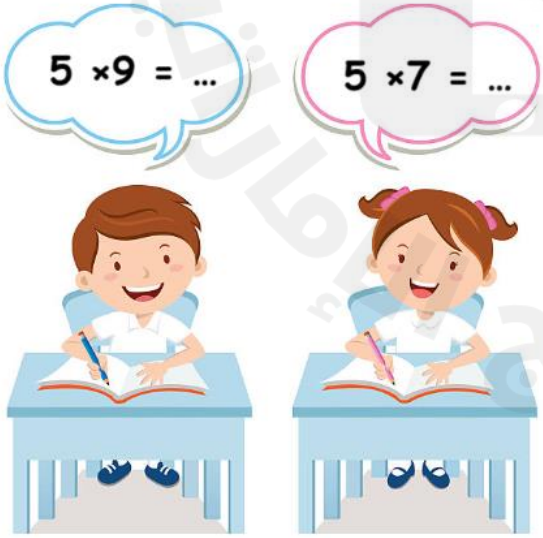
64,203 + 23,562 = _____

| Q4 | Understand an Addition Algorithm | (10-12) | Page 72 |
|---|---|---|---|

**10.** A band played two concerts with a total attendance of 9,698 people. The first concert had 4,467 people in attendance. How many people attended the second concert? Write an addition equation to solve.

**11.** **STEM Connection** A ship studying marine animal populations traveled 1,183 miles on the first part of its mission. The ship will travel another 815 miles to complete its mission. What is the total distance the ship will travel on this mission? Explain how you knew what math operation to use to solve the problem.

**12.** **Extend Your Thinking** Add 3,616 and 5,372 using partial sums and an algorithm. Explain how the two methods are similar and different.




| Q5 | Understand an Addition Algorithm Involving Regrouping | (1-8) | Page 75 |
|---|---|---|---|

**What is the sum? Use an algorithm to solve.**

**1.**
$$\begin{array}{r} 1{,}458 \\ +\ 926 \\ \hline \end{array}$$

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

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

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

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

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

**7.** A car manufacturer has made 4,569 cars so far this month. They will make 5,286 more cars this month. How many cars will they make this month? Use an algorithm to solve.

**8.** Trevon had 1,425 trading cards in his collection. He traded many cards and now has 395 more cards than he started with. How many trading cards does he have now? Use an algorithm to solve.

| Q5 | Understand an Addition Algorithm Involving Regrouping | 9,10 | Page 76 |
|---|---|---|---|

**9.** Luca and his family are taking a road trip.

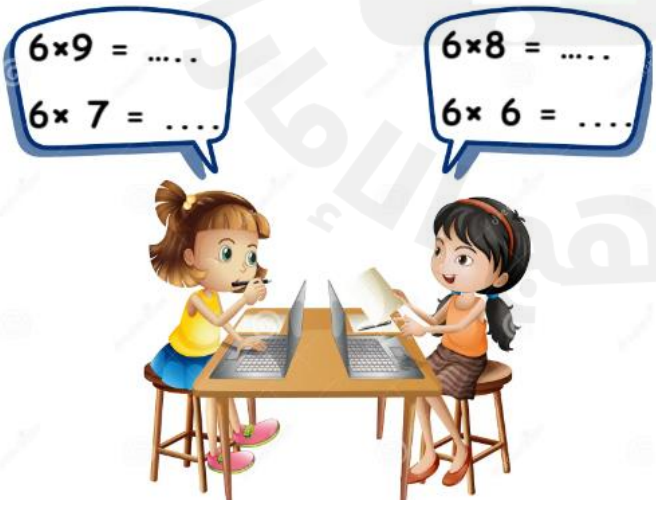
**a.** The first day they drove from Chicago to Omaha, 467 miles. The next day they drove from Omaha to Billings, 838 miles. How many miles did they drive the first two days?

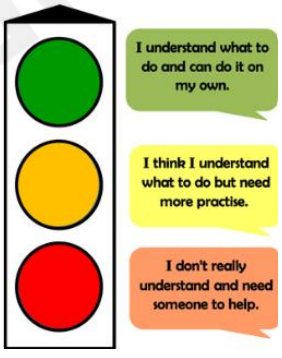
**b.** Luca's family then drove to Salt Lake City and Los Angeles, a total of 1,238 miles. How many miles have they driven so far on their trip?

**c.** Luca and his family ended their trip in Los Angeles and drove back to Chicago a different way. When they stopped exactly halfway through the trip home, they had driven 1,259 miles. How many miles did they travel on the entire trip home?

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

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



| Q6 | Understand a Subtraction Algorithm | (1-9) | Page 83 |
|---|---|---|---|

**What is the difference? Use an algorithm to solve.**

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

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

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

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

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

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

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

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

9. Addie and her family are driving to Florida to see her grandmother. The trip is 1,387 miles. They drove 365 miles the first day. How many miles do they have left to drive?

| Q6 | Understand a Subtraction Algorithm | (10-12) | Page 84 |
|---|---|---|---|

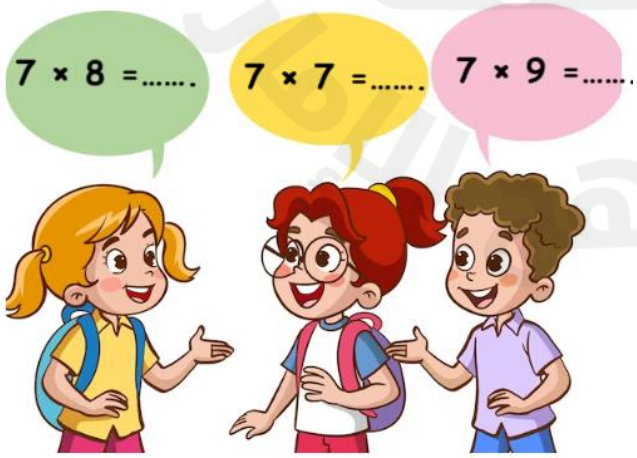
**10.** A summer camp is building new cabins. They spent $2,789 for wood and tools to complete the project. The tools cost $1,024. How much did the summer camp spend on wood?

**11.** Fill in the missing digits. Explain how you found each digit.

$$\begin{array}{r} 2,\ 7\ 4\ \square \\ -\ 1,\ \square\ \square\ 4 \\ \hline \square,\ 5\ 4\ 1 \end{array}$$

**12.** **Extend Your Thinking** Starwood School has an annual walkathon. Was the increase greater from two years ago to last year, or from last year to this year? Explain how you know.

| Walkathon Fundraiser | | |
|---|---|---|
| This Year | Last Year | 2 Years Ago |
| $7,875 | $5,652 | $3,420 |




| Q7 | Represent and Solve Multi-Step Problems | (1-4) | Page 91 |
|---|---|---|---|

**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?

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 | ? |

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?

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?

| Q7 | Represent and Solve Multi-Step Problems | 5,6 | Page 92 |
|---|---|---|---|

5. **STEM Connection** An ocean engineer used a sonar system to count fish populations of four schools of fish.

| School | Number of Fish |
|---|---|
| 1 | 234 |
| 2 | 536 |
| 3 | 1,112 |
| 4 | 189 |

   a. How many fish were counted?

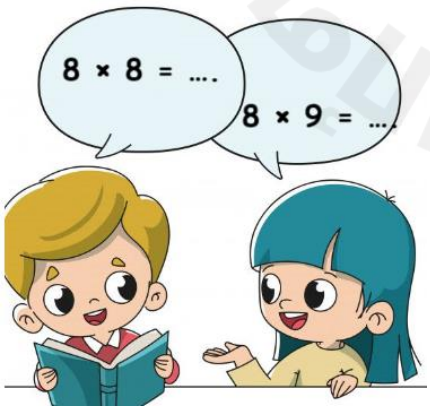
   b. The sonar used to count the fish is not always accurate, it can have an error of counting 10 fish too many or 10 fish too few for every 1,000 fish. Would it be reasonable to say that there could be 2,090 fish in all four schools? Explain.

6. **Extend Your Thinking** Gina used the following equations to solve a multi-step problem. Write a word problem that can be represented by the equations.

   Step 1: $5{,}700 - 2{,}200 = 3{,}500$

   Step 2: $3{,}500 - 1{,}545 = 1{,}955$

   Step 3: $5{,}700 + 3{,}500 + 1{,}955 = 11{,}155$



| Q8 | Understand Comparing with Multiplication | (1-6) | Page 107 |
|---|---|---|---|

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.

3. Complete the multiplicative comparison statement.

Stick A 

Stick B 

There are _____ times as many cubes in Stick A as in Stick B.

4. What multiplicative comparison statement can you write about the number of cubes in the two sticks?

 2 cubes

 10 cubes

5. What equation can be used to represent the multiplicative comparison statement 24 is 4 times as much as 6?

6. Sarah and Mark are looking at the equation $450 = 90 \times 5$. Sarah says it means 450 is 90 times as much as 5. Mark says it means 450 is 5 times as much as 90. How do you respond to them?

| Q8 | Understand Comparing with Multiplication | (7-12) | Page 108 |
|---|---|---|---|

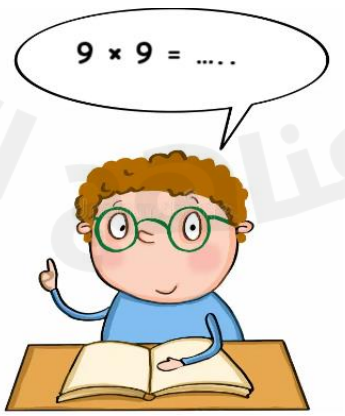
**How can you draw pictures to represent each statement?**

7. 16 is 4 times as many as 4.
8. 12 is 2 times as many as 6.
9. 12 is 3 times as many as 4 and 4 times as many as 3.

10. What equation can be used to represent 36 is 9 times as many as 4 and 4 times as many as 9?

11. **STEM Connection** Welding fuel comes in bottles of many sizes. The smallest bottle weighs 8 pounds, and the largest bottle weighs 9 times as much. What equation can you write to show how much the largest bottle weighs? Explain your answer.

12. **Extend Your Thinking** Aaron plants a garden with 4 tomato plants, 3 times as many pepper plants as tomato plants, and twice as many zucchini plants as pepper plants. Write equations to show how many pepper plants and zucchini plants are in the garden. How many plants does Aaron plant in all?



| Q9 | Represent Comparison Problems | (1-7) | Page 111 |
|---|---|---|---|

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

1. 8 more than 4
2. 3 times as many as 5
3. 2 times as long as 9 feet
4. 5 times as far as 10 miles

**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?
6. Raya has 8 pencils in her school box. Miranda has 4 more pencils than Raya. How many pencils does Miranda have?
7. Louisa is 5 feet tall. The tree in her backyard is 4 times as tall as Louisa. How tall is the tree?

| Q9 | Represent Comparison Problems | (8-12) | Page 112 |
|---|---|---|---|

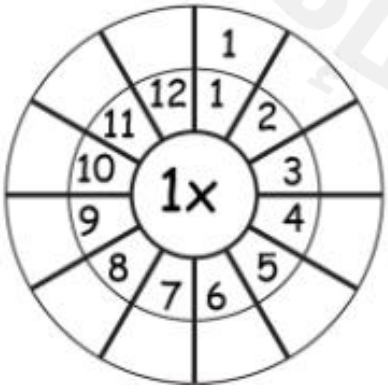
8. Ameer planted 6 plants. David planted 5 times as many. How many plants did David plant? Write an equation to represent the problem.

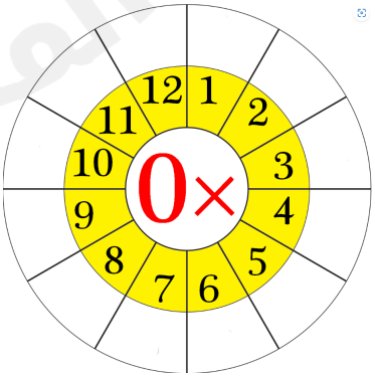
9. Rosa and her brother are playing a game. Rosa scored 8 points and her brother scored 2 points. What are two comparison statements you can make about their scores?

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.

11. **Error Analysis** Naomi wants to place three bookcases along a 7-foot wall. Each bookcase is 4 feet wide. She says the bookcases will fit, since 7 feet is three times longer than 4 feet. What would you tell her?

12. **Extend Your Thinking** Write a comparison problem for the equation $9 + 7 = ?$ and another for the equation $9 \times 7 = ?$. Then solve each problem.



| Q10 | Understand Prime and Composite Numbers | Work Together & ( 1 – 11) | Page 138 & 139 |
|---|---|---|---|

Which of these numbers are prime? Which numbers are composite?

8 19 33 45 67

**Is the number prime or composite? Explain your reasoning.**

1. 3
2. 24
3. 15
4. 31
5. 87
6. 2

**Is the statement true or false? Justify your answer.**

7. All even numbers greater than 2 are composite.
8. 1 is a prime number.
9. All odd numbers are prime.
10. All prime numbers are odd.
11. Find a prime number greater than 50. Explain how you know it is prime.

| Q11 | Understand Multiples | (1-9) & 10 ,11 | Page 143 & 144 |
|---|---|---|---|

**What are the next five multiples of the number?**

1. 4, _____, _____, _____, _____, _____, _____

2. 7, _____, _____, _____, _____, _____, _____

3. 12, _____, _____, _____, _____, _____, _____

4. 15, _____, _____, _____, _____, _____, _____

**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 are the missing multiples?**

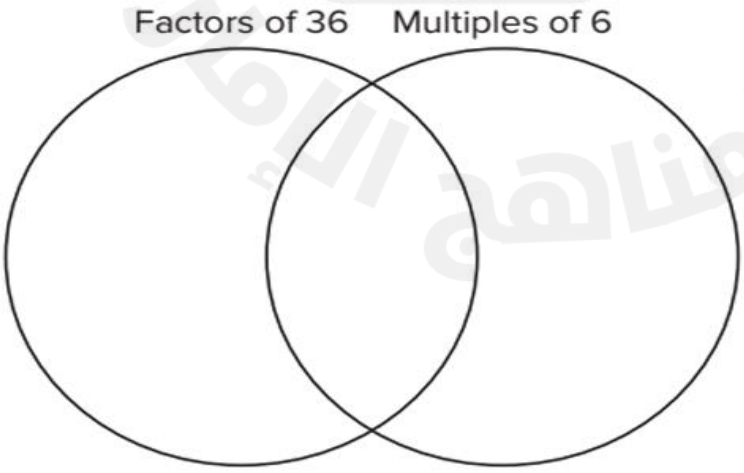
7. _____, 12, 18, _____, _____, _____

8. _____, 10, _____, _____, _____

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?

10. There are 3 olives on each slice of pizza. Danny will eat 2 or 3 slices. How many olives might Danny eat? Justify your thinking.

11. **Extend Your Thinking** Complete the Venn diagram by using numbers between 1 and 72. How can you describe the numbers shown in the overlapping section of the diagram?



| Q12 | Number or Shape Patterns | (1-8) | Page 147 |
|---|---|---|---|

**What is the pattern unit or rule?**

1. 

2. 6, 12, 24, 48, 96

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

4. 

5. 

6. 12, 20, 28, 36, 44

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

7. 36, 30, 24, _____, _____, _____

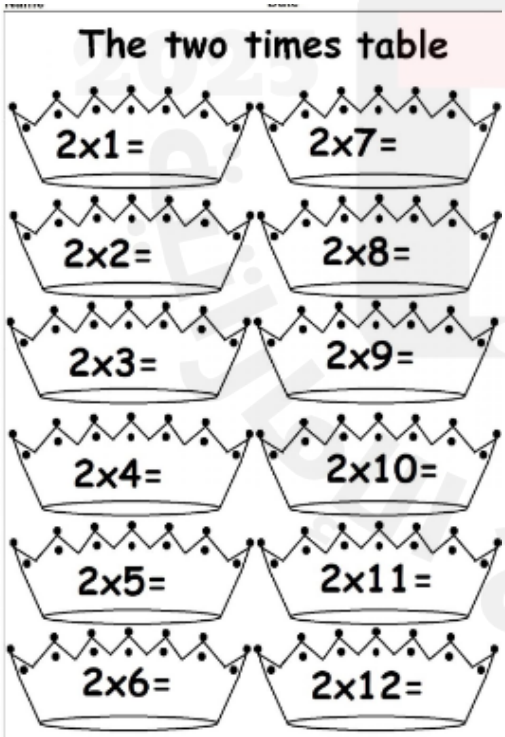
8. 

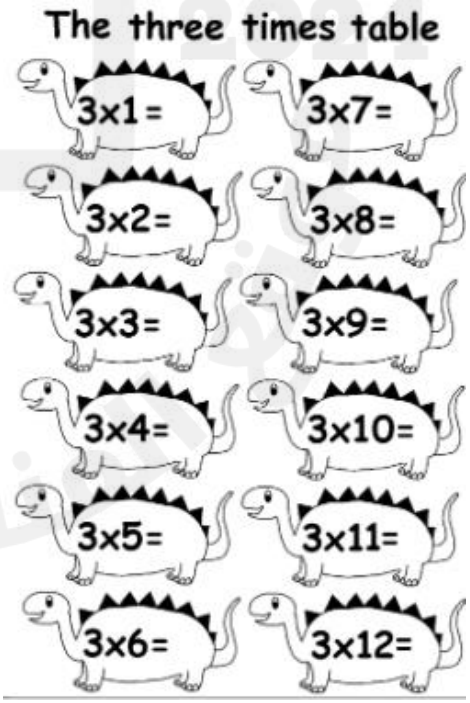
| Q12 | Number or Shape Patterns | (9-11) | Page 148 |
|---|---|---|---|

9. _____, 4, 8, _____, 32, _____, 128

10. 

11. **Extend Your Thinking** What would be the shape of the 30th bead in the string? Explain your thinking.



| Q13 | Multiply by Multiples of 10, 100, or 1,000 | (1-10) | Page 167 |
|---|---|---|---|

1. $4 \times 40 = 4 \times$ _____ tens
   $=$ _____ tens
   $=$ _____

2. $4 \times 400 = 4 \times$ _____ hundreds
   $=$ _____ hundreds
   $=$ _____

3. $6 \times 600 = 6 \times$ _____
   $= 36$ _____
   $=$ _____

4. $6 \times 6{,}000 = 6 \times$ _____
   $= 36$ _____
   $=$ _____

5. $4 \times 20 = 4 \times 2 \times$ _____
   $=$ _____ $\times$ _____
   $=$ _____

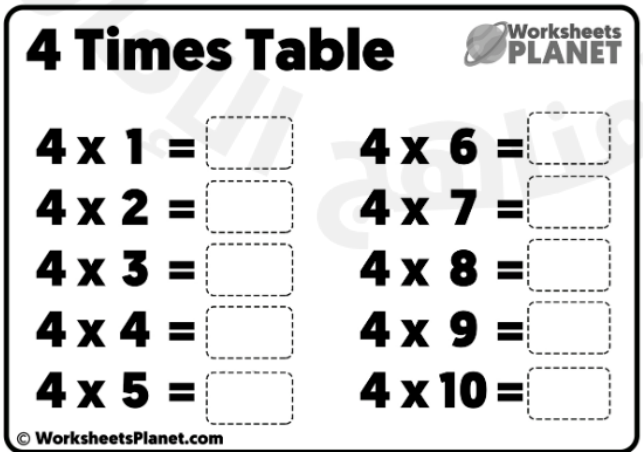
6. $4 \times 200 = 4 \times 2 \times$ _____
   $=$ _____ $\times$ _____
   $=$ _____

7. $7 \times 300 =$ _____

8. $2 \times 900 =$ _____

9. $8 \times 80 =$ _____

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



| Q14 | Estimate Products | ((1-9) | Page 171 |
|---|---|---|---|

**How can you use compatible numbers to estimate the product? Complete the equation.**

**1.** 323 × 5 = ?

Estimated product:

_____ × 5 = _____

**2.** 146 × 3 = ?

Estimated product:

_____ × 3 = _____

**3.** 436 × 5 = ?

Estimated product:

_____ × 5 = _____

**4.** 6 × 1,252 = ?

Estimated product:

6 × _____ = _____

**How can you use rounding to estimate each product? Complete the equation.**

**5.** 247 × 7 = ?

Estimated product:

_____ × 7 = _____

**6.** 396 × 8 = ?

Estimated product:

_____ × 8 = _____

**7.** 5 × 448 = ?

Estimated product:

5 × _____ = _____

**8.** 3,456 × 2 = ?

Estimated product:

_____ × 2 = _____

**How can you find the estimated product? Write an equation to show your work.**

**9.** A school cafeteria serves 2,750 lunches each week. About how many lunches are served in 4 weeks?

| Q14 | Estimate Products | (10-12) | Page 172 |
|---|---|---|---|

**10.** Penny's Pencils produces 5,980 pencils each day. About how many pencils does the company produce in 5 days.

**11.** The school store has some boxes containing school supplies.

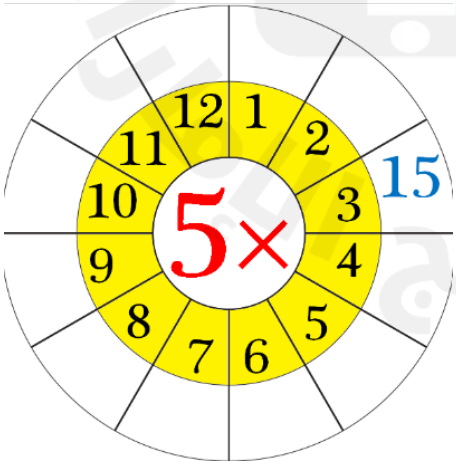
**a.** About how many notebooks are there?

**b.** About how many scissors are there?

**c.** About how many pencils are there?

| | Number of boxes | Number of items in a box |
|---|---|---|
| Notebooks | 9 | 28 |
| Scissors | 8 | 275 |
| Pencils | 6 | 3,830 |

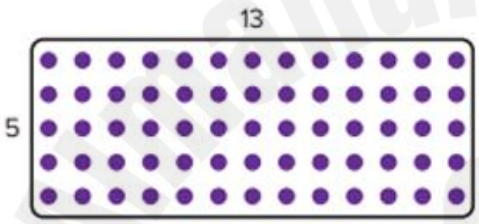
**12.** **Extend Your Thinking** What are some numbers you could multiply by 5 to get an estimated product of 1,500? List 3 different numbers.



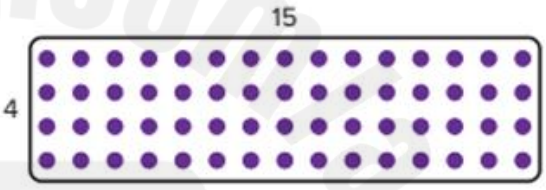

| Q15 | Use the Distributive Property to Multiply | (1-6) | Page 175 |
|---|---|---|---|

**How can you use the Distributive Property to find the product?**
**Use the array to help you decompose and complete the equation.**

**1.** $5 \times 13 = 5 \times (\_\_\_\_ + \_\_\_\_)$
$= (5 \times \_\_\_\_) + (5 \times \_\_\_\_)$
$= \_\_\_\_ + \_\_\_\_$
$= \_\_\_\_$




**2.** $4 \times 15 = 4 \times (\_\_\_\_ + \_\_\_\_)$
$= (4 \times \_\_\_\_) + (4 \times \_\_\_\_)$
$= \_\_\_\_ + \_\_\_\_$
$= \_\_\_\_$




**How can you use the Distributive Property to find the product?**
**Write and solve an equation to show your work.**

**3.** $7 \times 9$

**4.** $12 \times 8$

**5.** $3 \times 14$

**6.** $5 \times 17$

| Q15 | Use the Distributive Property to Multiply | (7-10) | Page 176 |
|---|---|---|---|

7. **Error Analysis** Quin says he can find $6 \times 8$ by using $(3 \times 8) + (3 \times 8)$. Jasmine says she can find $6 \times 8$ by using $(6 \times 4) + (6 \times 4)$. Who is correct? Explain.

8. Kayla planted 6 rows of flower bulbs. There are 13 bulbs in each row. How many bulbs did she plant? Show your work.

9. A stock room has 4 shelves. Each shelf can hold 14 boxes. How many boxes can be stored on the shelves? Show your work.

10. **Extend Your Thinking** A pillow has rows with stars and squares. There are 7 stars and 8 squares in each row. How you can use the equation $35 + 40 = 75$ and the Distributive Property to find the number of rows on the pillow? Show your work.

| | |
|---|---|
| 1 x 6 = ☐ | 7 x 6 = ☐ |
| 2 x 6 = ☐ | 8 x 6 = ☐ |
| 3 x 6 = ☐ | 9 x 6 = ☐ |
| 4 x 6 = ☐ | 10 x 6 = ☐ |
| 5 x 6 = ☐ | 11 x 6 = ☐ |
| 6 x 6 = ☐ | 12 x 6 = ☐ |

| Part 2 | Type Of Questions | FRQ Marks per each Questions | (6-11)Marks |
|---|---|---|---|

| Q16 | Read and Write Numbers to One Million | (1-7) | Page 39 |
|---|---|---|---|

**How can you write the number in standard form?**

1. Four hundred thousand, nine hundred thirty _____

2. Thirty-four thousand, nine hundred eighty-nine _____

**How can you write the number in expanded form?**

3. 530,879

4. 6,216

**How can you write the number in word form?**

5. 205,782

6. 1,108,308

7. **STEM Connection** Poppy found a sticker on the sign showing the size of Olympic National Park. She knows the size is between one million and nine hundred thousand acres. She also knows that the value of the digit in the ten thousands place is 10 times greater than the value of the digit in the thousands place. What is the size of the park?

| Q16 | Read and Write Numbers to One Million | (9,12,14) | Page 52 |
|---|---|---|---|

**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

**12.** What is the word form of 9,284? (Lesson 2-2)

**14.** Which of the following are different ways to represent the number 40,381? Choose all that apply. (Lesson 2-2)

**A.** 4,000 + 300 + 80 + 1

**B.** Forty thousand, three hundred eighty-one

**C.** 40,000 + 300 + 80 + 1

**D.** Four thousand, three hundred eighty-one

**E.** 40,000 + 3,000 + 80 + 1

**F.** Forty, three hundred eighty-one

| Q16 | Compare Multi-Digit Numbers | (1-11) | Page 43 |
|---|---|---|---|

**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
8. 720,301 < 720,031
9. 34,646 > 321,446
10. 24,747 < 24,774

11. Rebecca knows her number is greater than 15,724 by looking at the digits in the tens place. What could be Rebecca's number? Justify your answer.

| | | |
|---|---|---|
| 7 x 1 = 6 8 7 | 7 x 6 = 45 42 32 | 7 x 3 = 18 21 14 |
| 7 x 7 = 56 63 49 | 7 x 2 = 14 16 18 | 7 x 10 = 80 70 60 |
| 7 x 12 = 90 84 96 | 7 x 9 = 63 60 64 | 7 x 5 = 40 32 35 |
| 7 x 8 = 48 54 56 | 7 x 11 = 77 88 80 | 7 x 4 = 27 28 21 |

| Q17 | Strategies to Add Multi-Digit Numbers | (1-9) | Page 67 |
|---|---|---|---|

## Use partial sum or adjusting to add

### Review (partial sum)

| | | 1,613 |
|---|---|---|
| | | + 1,297 |
| Add the ones | 3 + 7 → | 10 |
| Add the tens | 10 + 90 → | 100 |
| Add the hundreds | 600 + 200 → | 800 |
| Add the thousands | 1,000 + 1,000 → | 2,000 |
| Add the partial sums. | | 2,910 |

Partial sums

### review ( adjust)

1,613 + 1,297

−3 +3

1,610 + 1,300 = 2,910

**What is the sum?**

1. 2,582 + 493 = _____

2. 476 + 8,719 = _____

3. 1,945 + 3,289 = _____

4. 12,017 + 5,308 = _____

5. 26,118 + 11,043

6. 47,621 + 21,345

7. 101,253 + 27,285

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?

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.

| Q17 | Strategies to Add Multi-Digit Numbers | (10-12) | Page 68 |
|---|---|---|---|

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

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

```
  5,331
+ 2,702
      3
     30
    100
  7,000
  7,133
```

**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?

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

| Q17 | Strategies to Subtract Multi-Digit Numbers | (1-9) | Page 79 |
|---|---|---|---|

## Review (decompose)

**9,856 –6,298 =**

$6,298 = 6,000 + 200 + 90 + 8$

$9,856 - 6,000 = 3,856$

$3,856 - 200 = 3,656$

$3,656 - 90 = 3,566$

$3,566 - 8 = 3,558$

## Review (adjusting )

**9,856 –6,298 =**

$9,856 - 6,298 = ?$

+2 +2

$9,858 - 6,300 = 3,558$

**How can you decompose to subtract? Find the difference.**

1. $2,532 - 1,301 =$ _____

2. $6,489 - 2,472 =$ _____

3. $8,018 - 7,659 =$ _____

4. $11,023 - 1,414 =$ _____

**How can you adjust to subtract? Find the difference.**

5. $12,469 - 10,212 =$ _____

6. $97,137 - 24,677 =$ _____

7. $46,597 - 4,267 =$ _____

8. $84,649 - 126 =$ _____

9. A restaurant served 14,299 meals in January and 13,039 meals in February. How many more meals did the restaurant serve in January than in February?

| Q17 | Strategies to Subtract Multi-Digit Numbers | (10-12) | Page 80 |
|---|---|---|---|

**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?

**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?

$$15{,}736 - 10{,}302 = \_\_\_\_\_$$

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

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

$+2$ $\quad -2$

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

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

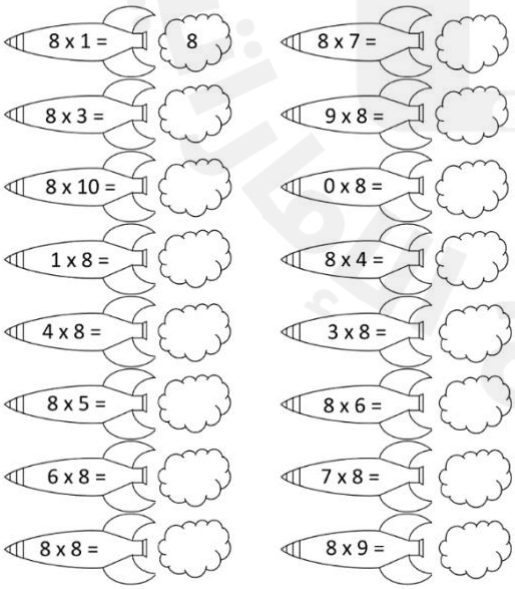
$+2$ $\quad +2$

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



8 TIMES TABLE - ROCKETS

Write the answers inside the rocket smoke.



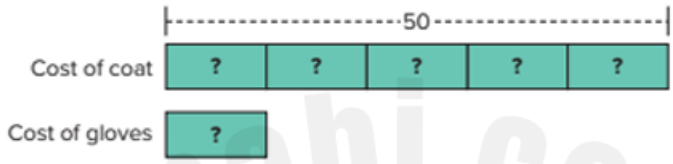
| Q18 | Solve Comparison Problems Using Division | Learn+ Work Together | Page 118 |
|---|---|---|---|

## Learn

A store sells winter coats for $50. A winter coat costs 5 times as much as a pair of gloves.

**How much does a pair of gloves cost?**

Use a bar diagram to represent the problem.
The winter coat costs 5 times as much as a pair of gloves.




Write a division equation to represent and solve the problem.

$50 \div 5 = ?$

$50 = 5 \times 10$

$50 \div 5 = 10$

A pair of gloves costs $10.

**Math is... Choosing Tools**

Why a bar diagram an appropriate tool?

Multiplicative comparison problems can also be solved using division equations. These problems may use words such as *times as many, times as much,* or *times less than.*

## Work Together

An apple costs 36¢. A banana costs 12¢. How many times as much does an apple cost compared to a banana? Use a bar diagram and an equation to represent and solve the problem.

| Q18 | Solve Comparison Problems Using Division | (1-7) | Page 119 |
|---|---|---|---|

**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 ?.
2. 20 is ? times as much as 5.
3. 18 is ? times as much as 6.
4. 16 is 4 times as much as ?.

**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?
6. Ellie has 50 blue blocks. She has 5 times as many blue blocks as white blocks. How many white blocks does she have?
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. $36 \div 4 = ?$

| Q18 | Solve Comparison Problems Using Division | (8-12) | Page 120 |
|---|---|---|---|

8. **Error Analysis** Michael scored 80 points on a video game. Alicia says his score is 4 times as much as her score. Michael thinks Alicia scored 320 points. How would you respond to him?

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?

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.

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?

12. **Extend Your Thinking** Write a word problem about a multiplicative comparison that you can solve using the equation $35 \div 5 = ?$. Then solve.

| Q19 | Understand Factors of a Number | (1-9) | Page 133 |
|---|---|---|---|

**What are all the factor pairs for each number?**

1. 14
2. 65
3. 23
4. 64
5. 32
6. 100

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?

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?

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.

| Q19 | Understand Factors of a Number | (10-13) | Page 134 |
|---|---|---|---|

**10. STEM Connection** Finn used 84 nails to build 7 shelves. Can Finn use 12 nails for each shelf? Explain your reasoning.

**11.** Kiara arranges her collection of toy cars in equal rows. She could place 30 cars in: 1 row of 30, 2 rows of 15, 3 rows of 10, and 5 rows of 6. What other arrangements could she show? Explain your reasoning.

**12.** Ahmet is planting flower bulbs in his garden. Can he arrange 11 bulbs in 3 equal rows? Explain.

**13. Extend Your Thinking** What number less than 20 has 3 factor pairs, but only 5 factors? Explain.

| Q19 | Analyze Features of a Pattern | (1-5) | Page 155 |
|---|---|---|---|

**Is each statement about the pattern true or false?**

1. Start with 4, multiply by 2.

| | True | False |
|---|---|---|
| All terms are multiples of 4. | | |
| All terms are multiples of 2. | | |
| All terms are even numbers. | | |

2. 

| | True | False |
|---|---|---|
| The 16th column will have 8 dots. | | |
| The number of dots in all terms is a multiple of 2. | | |
| The number of dots increases in each term. | | |

3. 

| | True | False |
|---|---|---|
| All side lengths are multiples of 2. | | |
| Each term increases by 1 row. | | |
| The perimeter of each term is a multiple of 2. | | |

**Use the pattern to answer exercises 4–6.**

**18, 24, 30, 36, 42, ...**

4. What is the pattern rule?
5. What is a feature of the pattern that is not stated in the pattern rule? Explain why this feature exists.

| Q19 | Analyze Features of a Pattern | (6-8) | Page 156 |
|---|---|---|---|

6. Can the number 72 be part of the pattern? Explain your answer.

7. **STEM Connection** Haley is in charge of the telescope posts for students to view the stars. She sets up the telescopes in arrays at each post. Analyze her arrays to answer the questions.

a. What is the pattern rule Haley used to set up the telescopes?

b. What is a feature of the pattern not stated in the pattern rule?

c. If the pattern continues, explain what can you predict about the 18th post in the telescope arrangements?

8. **Extend Your Thinking** Stacy creates a square with 2-inch side lengths. She increases the length of the sides of the square by 1 inch as she makes each new square. If she continues this pattern, what would be the area of the 9th square? Explain.

| Q20 | Multiply 2-Digit by 1-Digit Factors | (1-8) | Page 179 |
|---|---|---|---|

**How can you decompose the 2-digit number to solve? Complete the equation.**

1. $6 \times 82 = ?$
   $6 \times (\_\_\_\_ + \_\_\_\_) = ?$

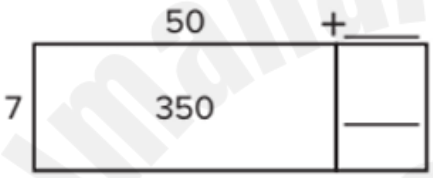
2. $91 \times 8 = ?$
   $8 \times (\_\_\_\_ + \_\_\_\_) = ?$

3. $76 \times 3 = ?$
   $3 \times (\_\_\_\_ + \_\_\_\_) = ?$

4. $7 \times 45 = ?$
   $7 \times (\_\_\_\_ + \_\_\_\_) = ?$

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

5. $7 \times 52$




$7 \times 52 = (7 \times 50) + (7 \times \_\_\_\_)$

$7 \times 52 = 350 + \_\_\_\_$

$7 \times 52 = \_\_\_\_$

6. $4 \times 96$


$4 \times 96 = (4 \times \_\_\_\_) + (4 \times 6)$

$4 \times 96 = \_\_\_\_ + 24$

$4 \times 96 = \_\_\_\_$

7. $5 \times 47$


$5 \times 47 = (5 \times \_\_\_\_) + (5 \times \_\_\_\_)$

$5 \times 47 = \_\_\_\_ + \_\_\_\_$

$5 \times 47 = \_\_\_\_$

8. $3 \times 29$


$3 \times 29 = (3 \times \_\_\_\_) + (3 \times \_\_\_\_)$

$3 \times 29 = \_\_\_\_ + \_\_\_\_$

$3 \times 29 = \_\_\_\_$


GOOD LUCK