

# Independent Practice

## 2.4

NAME \_\_\_\_\_

Module 2 Whole Number Operations  
Lesson 4 Large Numbers: Division

Divide using partial quotients.

- Fumi has 525 party favors to be equally divided between 25 people attending her party. How many party favors will each person get?  
**21 party favors**
- Jose buys 35 team jerseys for \$770. How much does each team jersey cost?  
**\$22**
- Chase was paid \$399 for working 57 hours. How much money did Chase make per hour?  
**\$7**
- Rick drove 975 miles to watch a professional baseball game. If he drove for 15 hours at the same speed, how many miles did he travel each hour?  
**65 miles**
- There were 969 people sitting in the bleachers at a soccer game. The bleachers were divided into 19 sections. If an equal number of people were sitting in each section, how many people were sitting in each section?  
**51 people**
- Travis was asked to mark off 400 feet of his garden into 16 equally spaced rows. How wide was each row?  
**25 feet**

Divide.

- $148 \div 4$   
**37**
- $163 \div 3$   
**54 R 1**
- $105 \div 3$   
**35**
- $194 \div 5$   
**38 R 4**

Answer each question by interpreting the remainder.

- Sarah's mother gave her \$179 to buy DVDs to take on vacation with her. If each DVD cost \$26, how many DVDs can Sarah buy?  
**Drop the remainder, 6 DVDs**
- Gershon gave an equal number of pencils to each of his 24 classmates and kept the rest. If there were 270 pencils, how many did Gershon keep?  
**Use the remainder, 6 pencils**

13. Faith needed 143 flowers to plant around her mailbox. Flowers are sold at the local nursery in flats that contain 18 flowers. How many flats will Faith need to buy?  
**Increase the quotient, 8 flats**
14. After giving a speech about Louisiana, Toni passed out Mardi Gras beads to each of her 19 classmates. She started with 119 strands of beads and divided them equally among her classmates. She kept the remainder. How many did Toni keep?  
**Use the remainder, 5 beads**
15. Tommy needs to dye 175 eggs for an egg hunt. He buys the eggs by the dozen in cartons. How many cartons of eggs does he need to buy?  
**Increase the quotient, 15 cartons**
16. Vikram wants to buy picture albums for the sports photos that he has taken during the season. He has \$165 and likes the albums which cost \$27 each. How many albums can Vikram buy?  
**Drop the remainder, 6 albums**

**Write a division problem for each set of instructions.**

17. Write a division problem that has a dividend of 255 and a divisor of 36. Make the answer to the question the quotient with the remainder dropped.  
**Possible answer: Joshua had \$255 to buy as many pairs of jeans as he can. If the jeans each cost \$36, how many pairs of jeans can he buy? 7 pairs of jeans**
18. Write a division problem that has a dividend of 514 and a divisor of 22. Make the quotient be increased to answer the question.  
**Possible answer: Kevin found boxes that would hold 22 video games. He needed to store 514 video games. How many boxes will Kevin need to store all of the video games? 24 boxes**
19. Write a division problem that has a dividend of 609 and a divisor of 43. Make the answer to the question the quotient with the remainder dropped.  
**Possible answer: Karen found boxes that would hold 43 books. She needed to store 609 books. How many full boxes will Karen fill with books? 14 full boxes**
20. Write a division problem that has a dividend of 815 and a divisor of 12. Make the answer to the question equal the remainder.  
**Possible answer: Kevin found boxes that would hold 12 light bulbs. He needed to store 815 light bulbs. How many light bulbs are left that will not make a full box? 11 light bulbs**

NAME \_\_\_\_\_

**Module 2**    **Whole Number Operations**  
**Lesson 4**    **Large Numbers: Division**

**Journal**

1. Find the quotient of  $228 \div 5$  using partial quotients. Explain how each partial quotient is found and how to get the quotient using the partial quotients.
2. Explain how you know to use the remainder for the answer to a word problem.
3. Explain how you know to use the quotient and drop the remainder for the answer to a word problem.
4. Explain how you know to increase the quotient for the answer to a word problem.

**Cumulative Review**

**Add or subtract.**

1. 
$$\begin{array}{r} 609 \\ - 554 \\ \hline 55 \end{array}$$

2. 
$$\begin{array}{r} 6,721 \\ 1,004 \\ + 3,572 \\ \hline 11,297 \end{array}$$

**Solve each of the following.**

3. Hayashi earned \$562 for babysitting last year, \$250 for refereeing soccer games, and \$1,298 for mowing lawns. How much money did he earn all together?  
**\$2,110**

4. Jonas has \$970. He owes his parents \$135. How much money will Jonas have left after he pays his parents?  
**\$835**

**Estimate before multiplying.**

5. 
$$\begin{array}{l} 688 \times 4 \\ \approx 2,800 \\ = 2,752 \end{array}$$

6. 
$$\begin{array}{l} 712 \times 8 \\ \approx 5,600 \\ = 5,696 \end{array}$$

**Solve using the Partial Products Method of Multiplying.**

7. Tim's Snow Cones has 15 employees. If each employee works 65 hours this month, how many hours will be worked in all by the employees at Tim's Snow Cones this month?

$$\begin{array}{r} 65 \\ \times 15 \\ \hline 25 \\ 300 \\ 50 \\ \hline 600 \\ 975 \text{ hours} \end{array}$$

8. A theater has 32 rows. Each row has 22 seats. How many seats are there in all?

$$\begin{array}{r} 32 \\ \times 22 \\ \hline 4 \\ 60 \\ \hline 600 \\ 704 \text{ seats} \end{array}$$

**Find each product. Use the Standard Multiplication algorithm.**

9.  $85 \times 17$   
**1,445**

10.  $66 \times 52$   
**3,432**

**Possible Journal Answers**

- 1.  $5 \times 40 = 200$ . Use 40 as a partial quotient and subtract 200 from 228;  $228 - 200 = 28$ .  $5 \times 4 = 20$ . Use four as a partial quotient and subtract 20 from 28.  $28 - 20 = 8$ ;  $5 \times 1 = 5$ . Use one as a partial quotient and subtract five from eight.  $8 - 5 = 3$ ;  $3 < 5$ , so three is the remainder. Add the partial products to find the quotient:  $40 + 4 + 1 = 45$ : The quotient is 45 with remainder three.**
- 2. If the problem asks a question, such as, how many were left over or how many were kept when objects were divided into equal groups, then the remainder is the answer.**
- 3. If the problem asks a question requiring a whole number answer, such as, how many items can be purchased with a certain amount of money or how many containers will be completely filled, then the answer is the quotient with the remainder dropped.**
- 4. If the problem asks a question, such as, how many containers will I need that contain a set amount of items and partial containers cannot be purchased, then the answer is an increased quotient.**