

CHAPTER
3**Whole Number
Multiplication and Division****Lesson 3.1 Multiplying by a 1-Digit Number****Solve.**

- 1.**
- Multiply 323 by 3.

$$3 \times 3 =$$

$$20 \times 3 =$$

$$300 \times 3 =$$

$$323 \times 3 = 3 \times 3 + 20 \times 3 + 300 \times 3 = \underline{\hspace{2cm}}$$

- 2.**
- Multiply 746 by 8.

$$6 \times 8 =$$

$$40 \times 8 =$$

$$700 \times 8 =$$

$$746 \times 8 = 6 \times 8 + 40 \times 8 + 700 \times 8 = \underline{\hspace{2cm}}$$

- 3.**
- Multiply 586 by 9.

$$6 \times 9 =$$

$$80 \times 9 =$$

$$500 \times 9 =$$

$$586 \times 9 = 6 \times 9 + 80 \times 9 + 500 \times 9 = \underline{\hspace{2cm}}$$

Name: _____

Date: _____

Multiply.

4.

$$\begin{array}{r} 246 \\ \times \quad 3 \\ \hline \end{array}$$

5.

$$\begin{array}{r} 375 \\ \times \quad 4 \\ \hline \end{array}$$

6.

$$\begin{array}{r} 428 \\ \times \quad 5 \\ \hline \end{array}$$

7.

$$\begin{array}{r} 537 \\ \times \quad 6 \\ \hline \end{array}$$

8.

$$\begin{array}{r} 387 \\ \times \quad 7 \\ \hline \end{array}$$

9.

$$\begin{array}{r} 639 \\ \times \quad 7 \\ \hline \end{array}$$

10.

$$\begin{array}{r} 467 \\ \times \quad 8 \\ \hline \end{array}$$

11.

$$\begin{array}{r} 294 \\ \times \quad 8 \\ \hline \end{array}$$

12.

$$\begin{array}{r} 563 \\ \times \quad 9 \\ \hline \end{array}$$

13.

$$\begin{array}{r} 487 \\ \times \quad 9 \\ \hline \end{array}$$

Name: _____

Date: _____

Lesson 3.2 Multiplying by a 2-Digit Number

Write the missing numbers.

1. $48 \times 10 = \underline{\hspace{2cm}}$	2. $89 \times 10 = \underline{\hspace{2cm}}$
3. $23 \times 40 = 23 \times \underline{\hspace{1cm}} \text{ tens}$ $= \underline{\hspace{2cm}} \text{ tens}$ $= \underline{\hspace{2cm}}$	4. $35 \times 30 = 35 \times \underline{\hspace{1cm}} \text{ tens}$ $= \underline{\hspace{2cm}} \text{ tens}$ $= \underline{\hspace{2cm}}$
5. $419 \times 50 = 419 \times \underline{\hspace{1cm}} \text{ tens}$ $= \underline{\hspace{2cm}} \text{ tens}$ $= \underline{\hspace{2cm}}$	6. $627 \times 20 = 627 \times \underline{\hspace{1cm}} \text{ tens}$ $= \underline{\hspace{2cm}} \text{ tens}$ $= \underline{\hspace{2cm}}$
7. $536 \times 60 = 536 \times \underline{\hspace{1cm}} \times 10$ $= \underline{\hspace{2cm}} \times 10$ $= \underline{\hspace{2cm}}$	8. $648 \times 60 = 648 \times \underline{\hspace{1cm}} \times 10$ $= \underline{\hspace{2cm}} \times 10$ $= \underline{\hspace{2cm}}$

Name: _____

Date: _____

Find each product.

9. $87 \times 7 =$ _____

$87 \times 70 =$ _____

10. $96 \times 7 =$ _____

$96 \times 70 =$ _____

11. $356 \times 8 =$ _____

$356 \times 80 =$ _____

12. $267 \times 9 =$ _____

$267 \times 90 =$ _____

Estimate each product.

Example

52×23 is about $\underline{50} \times \underline{20}$.

Estimate: $\underline{50} \times \underline{20} = 1,000$

13. 87×39 is about _____ \times _____.

Estimate: _____

14. 369×47 is about _____ \times _____.

Estimate: _____

Name: _____

Date: _____

Find each product.

15. $37 \times 5 =$

$37 \times 40 =$

		3	7	
×		4	5	
<hr/>				
<hr/>				

$37 \times 45 =$ _____

16. $56 \times 4 =$

$56 \times 30 =$

		5	6	
×		3	4	
<hr/>				
<hr/>				

$56 \times 34 =$ _____

17. $63 \times 9 =$

$63 \times 20 =$

		6	3	
×		2	9	
<hr/>				
<hr/>				

$63 \times 29 =$ _____

18. $74 \times 2 =$

$74 \times 30 =$

		7	4	
×		3	2	
<hr/>				
<hr/>				

$74 \times 32 =$ _____

Name: _____

Date: _____

Multiply. Then estimate to check that your answers are reasonable.

19.

$$\begin{array}{r} 98 \\ \times 76 \\ \hline \end{array}$$

20.

$$\begin{array}{r} 54 \\ \times 97 \\ \hline \end{array}$$

21.

$$\begin{array}{r} 364 \\ \times 29 \\ \hline \end{array}$$

22.

$$\begin{array}{r} 528 \\ \times 46 \\ \hline \end{array}$$

Name: _____

Date: _____

Multiply. Then estimate to check that your answers are reasonable.

23.

$$\begin{array}{r} 392 \\ \times 30 \\ \hline \end{array}$$

24.

$$\begin{array}{r} 439 \\ \times 72 \\ \hline \end{array}$$

25.

$$\begin{array}{r} 734 \\ \times 86 \\ \hline \end{array}$$

26.

$$\begin{array}{r} 856 \\ \times 94 \\ \hline \end{array}$$

Name: _____

Date: _____

Lesson 3.3 Modeling Division with Regrouping

Complete the steps.

1.

$\begin{array}{r} \square \\ 5 \overline{) 745} \\ \square \square \square \\ \hline \square \square \square \\ \hline \square \square \square \end{array}$	$\begin{array}{r} \square \\ 5 \overline{) 745} \\ \square \square \square \\ \hline \square \square \square \end{array}$	$\begin{array}{r} \square \square \\ 5 \overline{) 745} \\ \square \square \square \\ \hline \square \quad 4 \quad \square \\ \square \square \square \\ \hline \square \square \end{array}$	$\begin{array}{r} \square \square \square \\ 5 \overline{) 745} \\ \square \square \square \\ \hline \square \quad 4 \quad \square \\ \square \square \square \\ \hline \square \quad 5 \\ \square \square \\ \hline \square \end{array}$
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2.

$\begin{array}{r} \square \\ 6 \overline{) 984} \\ \square \square \square \\ \hline \square \square \square \end{array}$	$\begin{array}{r} \square \\ 6 \overline{) 984} \\ \square \square \square \\ \hline \square \square \square \end{array}$	$\begin{array}{r} \square \square \\ 6 \overline{) 984} \\ \square \square \square \\ \hline \square \quad 8 \quad \square \\ \square \square \square \\ \hline \square \square \end{array}$	$\begin{array}{r} \square \square \square \\ 6 \overline{) 984} \\ \square \square \square \\ \hline \square \quad 8 \quad \square \\ \square \square \square \\ \hline \square \quad 4 \\ \square \square \\ \hline \square \end{array}$
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Name: _____

Date: _____

Divide.

3. $2 \overline{) 728}$

4. $3 \overline{) 735}$

5. $4 \overline{) 948}$

6. $5 \overline{) 930}$

7. $6 \overline{) 654}$

8. $7 \overline{) 973}$

9. $8 \overline{) 984}$

10. $9 \overline{) 954}$

Name: _____

Date: _____

Lesson 3.4 Dividing by a 1-Digit Number

Fill in the blanks to find each quotient.

1. $6,400 \div 8 =$ _____ hundreds $\div 8$
= _____ hundreds
= _____

2. $6,300 \div 9 =$ _____ hundreds $\div 9$
= _____ hundreds
= _____

3. $9,000 \div 3 =$ _____ thousands $\div 3$
= _____ thousands
= _____

Estimate each quotient.

4. $78 \div 4$ is about _____ $\div 4$. Estimate: _____

5. $397 \div 5$ is about _____ $\div 5$. Estimate: _____

6. $7,425 \div 5$ is about _____ $\div 5$. Estimate: _____

7. $6,726 \div 6$ is about _____ $\div 6$. Estimate: _____

Name: _____

Date: _____

Divide.

8. $4 \overline{) 5,052}$

9. $6 \overline{) 6,078}$

10. $7 \overline{) 1,988}$

11. $9 \overline{) 5,058}$

12. $8 \overline{) 3,976}$

13. $5 \overline{) 4,840}$

Name: _____

Date: _____

Find each quotient. Then estimate to check that your answers are reasonable.

14. $1,748 \div 7 =$ _____ R _____

15. $3,871 \div 4 =$ _____ R _____

16. $3,014 \div 8 =$ _____ R _____

17. $2,518 \div 9 =$ _____ R _____

Name: _____

Date: _____

Find each quotient. Then estimate to check that your answers are reasonable.

18. $5,453 \div 9 =$ _____ R _____

19. $7,218 \div 8 =$ _____ R _____

20. $6,499 \div 7 =$ _____ R _____

21. $2,781 \div 5 =$ _____ R _____

Name: _____

Date: _____

Lesson 3.5 Real-World Problems

1. Sharon buys 18 boxes of cupcakes. There are 24 cupcakes in each box.
 - a. How many cupcakes does Sharon buy?

 - b. Sharon repacks all the cupcakes in boxes of 8 cupcakes each. How many boxes are needed?

2. There are 35 rows of chairs in a room. Each row has 42 chairs. Some workers remove 120 chairs from the room. How many chairs are there in the room now?

Name: _____

Date: _____

3. A digital camera costs \$699. A retailer sells 38 cameras.
How much does he collect altogether?



4. A bakery sells 369 banana muffins each day. It sells 4 times as many blueberry muffins as banana muffins each day. How many blueberry muffins are sold every day?



Name: _____

Date: _____

5. A factory produces 1,899 toy cars each day. How many toy cars does it produce in 7 days?

6. Ms. Marquez divides 3,440 beads equally among 6 groups of students for a crafts project.

a. How many beads does each group have?

b. How many beads are left over?

Name: _____

Date: _____

7. 2,255 stamps are divided equally among 6 post offices.
a. How many stamps does each post office receive?

b. How many stamps are left over?

8. Each pair of in-line skates costs \$56.
a. How much does a store have to pay for 39 pairs of in-line skates?

b. A store sells each pair of in-line skates for \$72. What is the profit that the store makes on the 39 pairs of in-line skates?



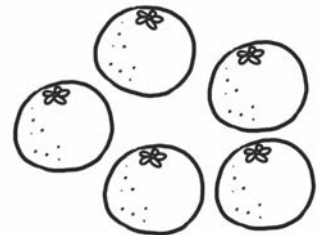
Name: _____

Date: _____

9. Hannah gave \$68 to charity. Hannah's mother gave 25 times as much as Hannah. How much did they give altogether?

10. A fruit seller has 2,400 oranges. He throws away 52 rotten oranges and packs the remainder equally into 9 boxes.
- a. How many oranges are in each box?

- b. How many oranges are unpacked?



Name: _____

Date: _____

13. Mr. Joseph's salary is \$3,650. He spends \$1,610 on rent. He divides the rest of his salary into 3 parts for his other monthly expenses. How much money is in each part?

14. Diana mixes 1,543 milliliters of orange concentrate with 932 milliliters of water to make orange juice. She then pours the mixture equally into 9 glasses. How much orange juice is in each glass?

Name: _____

Date: _____

15. Carlene saves $\$y$. Sharon saves 3 times as much money as Carlene. Jason saves $\$50$ more than Sharon. How much do they save altogether?

16. There are 200 chairs in a school. The workers arrange them into rows of 12 chairs. There are w chairs left over. How many rows are there?

Name: _____

Date: _____



Put On Your Thinking Cap!

1. Sarah has 275 red beads and 3 times as many blue beads. She uses a total of 156 beads to make a bracelet. How many beads are left?
2. Factory A produces 420 footballs a day. Factory B produces 90 fewer footballs than Factory A each day. How many footballs do the two factories produce in 28 days?
3. James and Sam saved \$392 altogether. Sam had 3 times as much money as James. Sam spends \$38 on a pair of shoes. How much money does Sam have now?

Name: _____

Date: _____

- 7.** Use each of the digits 2, 4, 7, 8, and 9 only once.
Arrange the digits in these boxes to get
- a.** the greatest possible product.

$$\begin{array}{r} \square \square \square \\ \times \quad \square \square \\ \hline \end{array}$$

- b.** the least possible product.

$$\begin{array}{r} \square \square \square \\ \times \quad \square \square \\ \hline \end{array}$$

- 8.** Mr. Garcia's age this year is a multiple of 7. In 3 years, his age will be a multiple of 5. He is more than 20 years old but less than 80 years old. How old will Mr. Garcia be in 6 years?

Name: _____

Date: _____

- 9.** At a bicycle shop, a bicycle costs \$49 and a tricycle costs \$27.
An after-school club buys bicycles and tricycles with a total of 39 wheels.
The club buys 2 more bicycles than tricycles.
- a.** How many bicycles does the club buy?

- b.** How much money does the club pay for the bicycles?