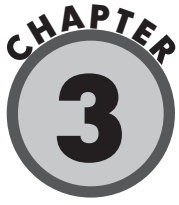


Name: _____

Date: _____



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. 2 4 6
 × 3

5. 3 7 5
 × 4

6. 4 2 8
 × 5

7. 5 3 7
 × 6

8. 3 8 7
 × 7

9. 6 3 9
 × 7

10. 4 6 7
 × 8

11. 2 9 4
 × 8

12. 5 6 3
 × 9

13. 4 8 7
 × 9

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

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

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
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$37 \times 45 =$ _____

16. $56 \times 4 =$

$56 \times 30 =$

		5	6
×		3	4
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$56 \times 34 =$ _____

17. $63 \times 9 =$

$63 \times 20 =$

		6	3
×		2	9
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$63 \times 29 =$ _____

18. $74 \times 2 =$

$74 \times 30 =$

		7	4
×		3	2
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$74 \times 32 =$ _____

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.

$$\begin{array}{r} \square \\ 5 \overline{) 745} \\ \square \square \square \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 5 \overline{) 745} \\ \square \square \square \\ \hline \square \square \square \end{array}$$

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

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

2.

$$\begin{array}{r} \square \\ 6 \overline{) 984} \\ \square \square \square \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 6 \overline{) 984} \\ \square \square \square \\ \hline \square \square \square \end{array}$$

$$\begin{array}{r} \square \square \\ 6 \overline{) 984} \\ \square \square \square \\ \hline \square 8 \square \\ \square \square \square \\ \hline \square \square \end{array}$$

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

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?



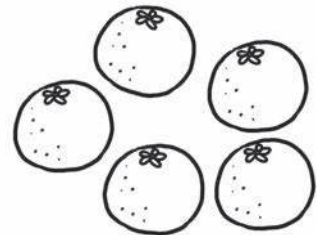
Name: _____

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: _____

- 11.** There are 4 times as many children as adults at a theater. There are 475 adults. How many people are at the theater altogether?
- 12.** A nature club has 37 members. Each member receives 15 fish to put into an aquarium. If 20 of the total number of fish are put into a fishbowl instead, how many fish are put into the aquarium?

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: _____

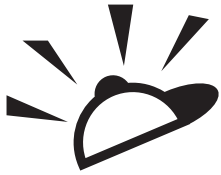
Date: _____

- 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: _____

- 4.** Mr. Roberts inherits some money. He keeps \$1,800 for himself, gives \$980 to his wife, and divides the rest among his 6 children. Each of his children receives \$89. How much did Mr. Roberts inherit?

- 5.** Mrs. Rodin buys a table and 6 chairs for \$1,233. The table costs \$750 more than each chair. How much does Mrs. Rodin pay for the 6 chairs?

- 6.** Ms. Rao buys a computer, a printer, and a scanner for \$2,543. The computer costs \$1,502 more than the printer. The printer costs \$123 more than the scanner. How much does Ms. Rao pay for the computer?

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?