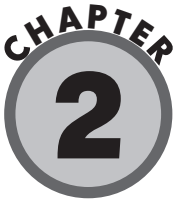
Name: _____ Date: _____



Whole Number Multiplication and Division

Lesson 2.1 Using a Calculator

Use your calculator in this lesson.

Add.

1. 3,857 + 2,684 = _____

2. 5,729 + 2,865 = _____

3. 1,898 + 4,573 = _____

4. 2,948 + 4,676 = _____

Subtract.

5. 4,216 − 1,678 = _____

6. 5,042 − 1,857 = _____

7. 26,111 − 12,935 = _____

8. 108,123 − 15,987 = _____

Multiply.

9. 268 × 94 = _____

10. 479 × 58 = _____

11. 1,579 × 48 = _____

12. 36,450 × 28 = _____

Name: _____ **Date:** _____

Divide.

13. 6,356 ÷ 7 = _____

14. 6,344 ÷ 8 = _____

15. 2,632 ÷ 47 = _____

16. 5,796 ÷ 69 = _____

17. 15,696 ÷ 36 = _____

18. 322,077 ÷ 98 = _____

Use your calculator to solve this question.

19. **Step 1** Write any whole number between 100 and 999.
Step 2 Multiply the number by 11.
Step 3 Then multiply the product by 91.

Repeat the three steps by choosing another number in Step 1.
What do you notice about the answers?

Name: _____ Date: _____

Lesson 2.2 Multiplying by Tens, Hundreds or Thousands

Multiply.

1. $38 \times 10 =$ _____

2. $746 \times 10 =$ _____

3. $624 \times 10 =$ _____

4. $857 \times 10 =$ _____

5. $758 \times 10 =$ _____

6. $680 \times 10 =$ _____

Find the missing factors.

7. $681 \times$ _____ $= 6{,}810$

8. _____ $\times 10 = 1{,}900$

9. $453 \times$ _____ $= 4{,}530$

10. $1{,}905 \times$ _____ $= 19{,}050$

11. _____ $\times 10 = 64{,}000$

12. _____ $\times 10 = 808{,}000$

Fill in the blanks.

13. $56 \times 80 = (56 \times$ _____$) \times 10$

$=$ _____ $\times 10$

$=$ _____

14. $756 \times 40 = (756 \times$ _____$) \times 10$

$=$ _____ $\times 10$

$=$ _____

15. $680 \times 50 = (680 \times$ _____$) \times 10$

$=$ _____ $\times 10$

$=$ _____

Name: _____ **Date:** _____

16. $857 \times 60 = (\_\_\_\_\_ \times \_\_\_\_\_) \times 10$

$= \_\_\_\_\_ \times 10$

$= \_\_\_\_\_$

Multiply.

17. 38×40

18. 572×80

19. 490×30

20. 375×70

Multiply.

21. $47 \times 100 = \_\_\_\_\_$

22. $325 \times 100 = \_\_\_\_\_$

23. $168 \times 100 = \_\_\_\_\_$

24. $231 \times 1{,}000 = \_\_\_\_\_$

25. $192 \times 1{,}000 = \_\_\_\_\_$

26. $759 \times 1{,}000 = \_\_\_\_\_$

Name: _____ Date: _____

Fill in the blanks.

27. $386 \times$ _____ $= 38{,}600$

28. _____ $\times 100 = 712{,}000$

29. $623 \times$ _____ $= 623{,}000$

30. $816 \times$ _____ $= 81{,}600$

31. _____ $\times 1{,}000 = 7{,}910{,}000$

32. _____ $\times 1{,}000 = 5{,}200{,}000$

Fill in the blanks.

33. $24 \times 600 = (24 \times$ _____$) \times 100$

$=$ _____ $\times 100$

$=$ _____

34. $108 \times 400 = (108 \times$ _____$) \times 100$

$=$ _____ $\times 100$

$=$ _____

35. $160 \times 500 = (160 \times$ _____$) \times 100$

$=$ _____ $\times 100$

$=$ _____

36. $37 \times 3{,}000 = (37 \times$ _____$) \times 1{,}000$

$=$ _____ $\times 1{,}000$

$=$ _____

Name: _____ **Date:** _____

37. $103 \times 8{,}000 = (103 \times$ _____$) \times 1{,}000$

$=$ _____ $\times 1{,}000$

$=$ _____

38. $325 \times 4{,}000 = (325 \times$ _____$) \times 1{,}000$

$=$ _____ $\times 1{,}000$

$=$ _____

Multiply.

39. 209×700

40. $146 \times 9{,}000$

Round the 2-digit numbers to the nearest ten, the 3-digit numbers to the nearest hundred, and the 4-digit numbers to the nearest thousand. Then estimate the product.

41. 458×87 rounds to _____ $\times$ _____ $=$ _____

42. 54×349 rounds to _____ $\times$ _____ $=$ _____

43. $3{,}629 \times 512$ rounds to _____ $\times$ _____ $=$ _____

44. $2{,}433 \times 651$ rounds to _____ $\times$ _____ $=$ _____

Name: _____ Date: _____

Lesson 2.3 Multiplying by 2-digit Numbers

Multiply. Estimate to check if your answers are reasonable.

1. 46×80

2. 53×90

3. 49×46

4. 58×52

5. 37×63

6. 65×47

7. 86×43

8. 96×84

Name: _____ **Date:** _____

Multiply. Estimate to check if your answers are reasonable.

9. 763×40

10. 370×60

11. 495×27

12. 856×56

13. $1{,}268 \times 39$

14. $1{,}046 \times 93$

15. $1{,}203 \times 78$

16. $3{,}108 \times 24$

Name: _____ Date: _____

Lesson 2.4 Dividing by Tens, Hundreds, or Thousands

Divide.

1. 7,200 ÷ 10 = _____

2. 2,800 ÷ 10 = _____

3. 23,000 ÷ 10 = _____

4. 680,000 ÷ 10 = _____

Fill in the blanks.

5. 2,320 ÷ 10 = _____

6. _____ ÷ 10 = 160

7. 24,000 ÷ _____ = 2,400

8. 84,000 ÷ _____ = 8,400

9. _____ ÷ 10 = 398

10. _____ ÷ 10 = 5,500

Fill in the blanks.

11. 9,300 ÷ 30 = (9,300 ÷ _____) ÷ 3

= _____ ÷ 3

= _____

12. 9,500 ÷ 50 = (9,500 ÷ 10) ÷ _____

= _____ ÷ _____

= _____

Name: _____ **Date:** _____

13. 126,000 ÷ 60 = (126,000 ÷ 10) ÷ _____

= _____ ÷ _____

= _____

Divide.

14. 60,000 ÷ 40

15. 372,000 ÷ 60

16. 486,000 ÷ 90

17. 267,400 ÷ 70

Divide.

18. 4,800 ÷ 100 = _____

19. 35,700 ÷ 100 = _____

20. 79,000 ÷ 1,000 = _____

21. 350,000 ÷ 1,000 = _____

Name: _____ Date: _____

Fill in the blanks.

22. 19,200 ÷ 100 = _____

23. _____ ÷ 100 = 2,750

24. 77,000 ÷ _____ = 770

25. 930,000 ÷ _____ = 930

26. _____ ÷ 1,000 = 514

27. _____ ÷ 100 = 6,800

Fill in the blanks.

28. 13,500 ÷ 300 = (13,500 ÷ _____) ÷ 3

= _____ ÷ 3

= _____

29. 85,000 ÷ 500 = (85,000 ÷ 100) ÷ _____

= _____ ÷ _____

= _____

30. 840,000 ÷ 400 = (840,000 ÷ _____) ÷ 4

= _____ ÷ 4

= _____

31. 924,000 ÷ 6,000 = (924,000 ÷ _____) ÷ 6

= _____ ÷ 6

= _____

Name: _____ **Date:** _____

32. 981,000 ÷ 9,000 = (981,000 ÷ 1,000) ÷ _____

= _____ ÷ _____

= _____

33. 756,000 ÷ 7,000 = (756,000 ÷ _____) ÷ 7

= _____ ÷ 7

= _____

34. 12,400 ÷ 400

35. 456,000 ÷ 3,000

Estimate each quotient.

36. 775 ÷ 42 rounds to _____ ÷ _____ = _____.

37. 6,599 ÷ 497 rounds to _____ ÷ _____ = _____.

38. 8,977 ÷ 298 rounds to _____ ÷ _____ = _____.

39. 4,090 ÷ 15 rounds to _____ ÷ _____ = _____.

Name: _____ Date: _____

Lesson 2.5 Dividing by 2-digit Numbers

Divide.

1. 80 ÷ 20

2. 100 ÷ 18

3. 130 ÷ 43

4. 620 ÷ 52

5. 198 ÷ 23

6. 240 ÷ 34

7. 624 ÷ 29

8. 831 ÷ 45

Name: _____ Date: _____

Estimate the quotient. Then divide.

9. 3,160 ÷ 40

10. 3,250 ÷ 50

11. 2,566 ÷ 24

12. 3,129 ÷ 38

13. 4,163 ÷ 42

14. 1,986 ÷ 51

15. 1,300 ÷ 49

16. 1,170 ÷ 61

Name: _____ Date: _____

Lesson 2.6 Order of Operations

Find the value of each expression. Record each step.

1. $60 - 20 + 70 =$ _____

Step 1 _____

Step 2 _____

2. $200 \div 5 \times 7 =$ _____

Step 1 _____

Step 2 _____

3. $100 - 135 \div 3 + 27 =$ _____

Step 1 _____

Step 2 _____

Step 3 _____

4. $80 + 108 \div 9 \times 10 =$ _____

Step 1 _____

Step 2 _____

Step 3 _____

5. $42 \times 10 - 72 \div 8 =$ _____

Step 1 _____

Step 2 _____

Step 3 _____

Name: _____ **Date:** _____

Find the value of each expression. Record each step.

6. $90 \times (38 - 18) \div 100 =$ _____

Step 1 _____

Step 2 _____

Step 3 _____

7. $(100 - 80 \div 2) - 15 \times 4 =$ _____

Step 1 _____

Step 2 _____

Step 3 _____

Step 4 _____

Find the value of each expression. State the order of operations.

	Expression	Order
8.	$34 \times 3 \div 6 =$	$\times$ $\div$
9.	$184 + 27 \times 3 =$	
10.	$100 - 68 + 37 \times 4 =$	
11.	$19 \times 4 + 84 \div 6 =$	
12.	$7 + 47 \times 8 \div 4 - 28 =$	
13.	$30 - (45 - 17) =$	
14.	$7 \times (14 + 26) \div 8 =$	
15.	$(73 + 27) - 136 \div 4 =$	

Name: _____ Date: _____

Lesson 2.7 Real-World Problems: Multiplication and Division (Part 1)

Solve. Show your work.

1. A fruit seller buys 1,456 apples and packs them equally into boxes of 56 each. He sells each box for $18. How much money does he collect if he sells all the apples?

2. Mrs. Brandon had 230 soft toys. She kept 50 soft toys and distributed the rest equally to 15 children to sell for charity. Each toy was sold for $20. How much money did each child collect?

Name: _____ **Date:** _____

3. There are 641 boys and 490 girls in Greenland School. Each child makes 8 origami art pieces for classroom decorations. All the origami art pieces are then distributed equally among 58 classrooms. How many origami art pieces are in each classroom?

4. Tina collects 487 seashells and Wayne collects 345. After giving 40 seashells to Calvin, they put the remainder equally into 36 boxes. How many seashells are in each box?

5. The table shows the booking fee for a squash court in a community club.

From 9 a.m. to 5 p.m.	$4 per hour
After 5 p.m.	$7 per hour

Edwin booked a squash court from 4 p.m. to 8 p.m. How much did Edwin pay for the squash court?

Name: _____ Date: _____

Lesson 2.7 Real-World Problems: Multiplication and Division (Part 2)

Solve. Show your work.

1. Three times as many children as adults attended a concert on Saturday. An adult's ticket cost $7 and a child's ticket cost $3. The theater collected a total of $6,000. How many people bought tickets?

2. Mrs. Daniel pays $324 for a handbag and 3 pairs of shoes. The handbag costs half as much as the 3 pairs of shoes combined. Find the cost of the handbag.

Name: _____ **Date:** _____

3. Mr. Jacob is 55 years old and Tony is 7 years old. In how many years will Mr. Jacob be 4 times as old as Tony?

4. The cost of 5 similar digital cameras and 3 similar video cameras is $3,213. Each video camera costs 4 times as much as each digital camera. John buys a digital camera and a video camera. How much does he pay?

Name: _____ **Date:** _____

5. Anne, Ryan and Joel collect empty cans for recycling. They collect a total of 1,925 cans. Anne collects half as many cans as Ryan. Joel collects twice as many cans as Ryan. How many cans does Joel collect?

6. David and Joseph have a total of 328 marbles. Matthew and David have 176 marbles. Joseph has 5 times as many marbles as Matthew. How many marbles does David have?

Name: _____ **Date:** _____

7. The library has a total collection of 2,630 books. The number of non-fiction books is 240 fewer than the number of fiction books but 190 more than the number of picture books. How many books of each type are there in the library?

8. The total length of 4 blue banners and 5 yellow banners is 49 meters. The total length of 2 blue banners and 1 yellow banner is 17 meters. All banners of the same color have the same length. Find the length of each blue banner.

Name: _____ **Date:** _____

9. At the local clothing store, 3 similar shirts and 4 similar jackets cost $360, and 1 shirt and 3 jackets cost $220. Find the cost of each shirt.

10. James bought a few hamsters. For each day after the first day of the week, the hamsters ate 20 grams of food more than the previous day.
The hamsters grew fast, finishing 1,260 grams of food in the first week.
How much food did the hamsters eat on the first day?

Name: _____ **Date:** _____

11. Ann had $198 more than her sister. After their mother gave Ann $20 and her sister $60, Ann had twice as much money as her sister. How much money did Ann have at first?

12. There were 7 times as many marbles in Box A as in Box B. After Joyce transferred 294 marbles from Box A to Box B, both boxes had the same number of marbles. How many marbles were there in Box A at first?

Name: _____ Date: _____

Put on Your Thinking Cap!

Solve. Show your work.

1. In a mathematics quiz, 20 problems are given. 5 points are given for each correct answer and 2 points are deducted for each incorrect answer. Ashley scores 51 points. How many correct answers does she have?

2. The product of two consecutive even numbers is 624. What is the greater number? (Consecutive even numbers are even numbers placed one after another in an unbroken sequence. For example, 2, 4, 6, 8 or 10, 12, 14.)

Name: _____ **Date:** _____

3. Use a calculator to multiply.

$24 \times 11 =$ _____

$35 \times 11 =$ _____

$72 \times 11 =$ _____

$69 \times 11 =$ _____

$58 \times 11 =$ _____

$76 \times 11 =$ _____

What do you notice about the answers? Find a shortcut to the answers without using a calculator.

4. Aaron and Benga have a total of 976 trading cards. Benga has 7 times as many cards as Aaron. How many cards should Benga give Aaron so that Aaron will have 3 times as many cards as Benga?

Name: _____ **Date:** _____

5. There were 149 angelfish and goldfish in an aquarium. There were twice as many guppies as angelfish. After selling 35 goldfish, there are half as many goldfish as angelfish. How many fish are left in the aquarium?

6. Sophia buys an equal number of oranges and pears for a party. The oranges are bought at a price of 7 for $2 and the pears are bought at a price of 5 for $3. She pays $33 more for the pears than for the oranges.

a. How much does Sophia pay in all?

b. How many oranges and pears does she buy altogether?

Name: _____ **Date:** _____

7. Marit and Jennifer had an equal number of crackers. Each day, Marit ate 12 crackers and Jennifer ate 6 more crackers than Marit. When Jennifer had 24 crackers left, Marit had 96 crackers left. How many crackers did each of them have at first?

8. Robert and Damien had the same amount of money. Each day, Robert spent $4 and Damien spent $6. When Damien had $12 left, Robert had 4 times as much money left as Damien. How much money did each boy have at first?

Name: _____ **Date:** _____

9. For every 5 highlighters that Agnes buys, she gets 1 free. If Agnes needs 80 highlighters, what is the least number of highlighters she has to buy?

10. Benita has three ropes measuring 54 centimeters, 108 centimeters, and 189 centimeters. She cuts all of them into equal pieces. The length of each piece is the longest possible length she can cut.

a. What is the length of each piece of cut rope?

b. How many pieces of cut rope does Benita get?

Name: _____ **Date:** _____

11. Jessica and her mother return from shopping with 14 packages. They park the car in the parking lot, which is 120 meters away from their house. Then they make several trips to bring the packages into their house. Jessica's mother can carry 3 packages at a time and Jessica can carry 2. Given that they always walk together and the least possible number of trips is made, find the total distance covered by both of them.

12. Form the greatest and least possible products by filling in each box with one of these digits:

2 **3** **4** **5** **6**

For each product, use each digit only once.