



MODULE 4 Multiplying Real Life Numbers

ANSWER KEY







Part 1: The Meaning of Multiplication

Practice Your Skills

Exercise 1A

Which numbers are the factors? Which number is the product?

	factors	product
1. 2 x 3 = 6		
2. 6 x 3 = 18		
3. 8 x 2 = 16		
4. 2 x 9 = 18		

Exercise 1B

Write the number sentence.

- 5. Six times four equals twenty-four. _____
- 6. Nine times three equals twenty-seven. _____
- 7. Three times six equals eighteen.
- 8. Two times seven equals fourteen.

Exercise 1C

Write the multiplication fact.

- 9. 4+4+4+4
- 10. 2 + 2 + 2 + 2 + 2 + 2 =
- 11. 5+5+5+5
- 12. 7 + 7

Exercise 1D

Find the product mentally.

- 13. 2 x 2_____
- 14. 2 x 5 _____
- 15. 6 x 2_____
- 16. 8 x 4 _____

Exercise 2A

Find the sum and the product.

$$\Diamond \Diamond \Diamond \Diamond \Diamond \Diamond \Diamond$$

$$\Diamond \Diamond \Diamond \Diamond \Diamond \Diamond \Diamond \Diamond$$

$$\Diamond \Diamond \Diamond \Diamond \Diamond \Diamond \Diamond$$

Exercise 2B

Multiply.

<u>X4</u>

Exercise 2C

You know that $6 \times 6 = 36$.

Estimate and tell whether the product is greater or less than 36.

Exercise 3A Multiply.

Exercise 3B Multiply.

RealLife Math

Exercise 3C

Solve.

- 22. Robin baked 4 quiches for lunch. She cut each quiche into 6 pieces. How many pieces of quiche are there?
- 23. There are 8 packages of paper plates. Each package has 9 plates. How many plates are there in all?
- 24. The adult learning centre had registration for 5 days in the fall. Each day, 11 learners signed up. How many learners signed up altogether?

25. John decided to improve his diet and eat healthy food. When he did this he lost 1 kilogram each week for 8 weeks. What is the total number of kilograms that he lost?

Exercise 4A Multiply. Count the zeros in the product.

Exercise 4B Complete the charts.

	Χ	1	10	100	1,000
16.	2				
17.	3				
18.	5				
19.	7				
20.	8				
	X	4	40	400	4,000
21.	3				
22.	5				
23.	7				
24.	8				
25.	9				

Exercise 4C Multiply.

Real Life Math Exercise 4D Solve.

- 46. There are 500 pieces in one puzzle box. How many pieces are there in 5 boxes?
- 47. Six thousand people went to the county fair each night. The fair lasted 8 nights. How many people went to the fair?
- 48. The purchasing manager ordered 400 boxes of pens. There are 8 pens in each box. How many pens were ordered?

49. There are 30 National Hockey League (NHL) teams. Each team has 20 players. How many players are there in the National Hockey League altogether?

Exercise 5A

Round the number to its greatest place.

- 1. 38 _____ 2. 53 ____ 3. 429 ____ 4. 781 ____
- 5. 3,209 _____ 6. 4,983 ____ 7. 7,007 ____ 8. 8,750 ____

Exercise 5B

Estimate the product.

- 9. 48 <u>X 2</u>
- X 8
- 10. 13 11. 56 12. 81 X 3
 - X 4
- 13. 31 <u>X 7</u>

- <u>X 3</u>
- X 5
- <u>X 6</u>
- 14. 247 15. 541 16. 607 17 894 X 4
- 18. 465 X 7

- X 7
- <u>X 6</u>
- <u>X 3</u> <u>X 5</u>
- 19. 1,483 20. 3,849 21. 5,384 22. 6,812 23. 4,753 <u>X 7</u>
- 24. 187 <u>X 5</u>
- X 6
- 25. 2,940 26. 8,152 27. 407
 - X 3 X 9
- 28. 3,817 <u>X</u> 5

Writing in Math

The word "about" can be used in many contexts. For example, the temperature is about 25 degrees. Write three sentences using the word about in three different ways.

29			
30			
31			

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Exercise 6A

Solve. Look for a pattern. Make a table if necessary.

- 1. Diana swims 4 laps the first day, 8 laps on the second day, 12 laps on the third day, and so on. If the pattern continues, how many laps does she swim on the seventh day?
- 2. There are 3 tennis balls in each can, 18 balls in 6 cans, and 21 balls in 7 cans. How many tennis balls are in 9 cans?
- 3. Raymond took 6 hours of tennis lessons in April, 12 hours in May, 18 hours in June, and 24 hours in July. If the pattern continues, how many hours of lessons will he have in August?
- 4. Leslie is knitting an afghan. The first row is blue, the second row is white, the third row is green, the fourth row is yellow, the fifth row is blue and so on. If the pattern continues, what colour is the sixteenth row?

5. Fred practices the piano 20 minutes the first day, 40 minutes the second day, 20 minutes the third day, 50 minutes the fourth day, 20 minutes the fifth day, 60 minutes the sixth day, and 20 minutes the seventh day. If this pattern continues, how long will he practice on the twelfth day?

Exercise 7A

- 6. 23 7. 33 8. 78 9. 67 10. 22 <u>X 7</u> <u>X 8</u> <u>X 9</u> <u>X 5</u> <u>X 8</u>
- 11. 13 12. 25 13. 18 14. 43 15. 37 <u>X90</u> <u>X 63</u> <u>X 27</u> <u>X 42</u> <u>X 53</u>
- 16.
 55
 17.
 34
 18.
 62
 19.
 49
 20.
 45

 X 27
 X 49
 X35
 X53
 X45
- 21. 26 22. 87 23. 45 24. 82 25. 97 X41 X 53 X 63 X 37 X 56

Exercise 8A Multiply.

Critical Thinking

- 26. What is the largest product you can get by multiplying a 3-digit number by a 2-digit number?
- 27. What is the smallest product?

Exercise 9A Multiply.

RealLife Math Exercise 9B Solve.

- 21. Dean orders 14 roses from the florist. Each rose is \$3.25. How much money does Dean spend?
- 22. Vicky bowled 6 games on Saturday. Each game is \$6.90. How much did Vicky spend?

RealLife Math

Module #4 Task Based Activity: Catalogue Orders

Ordering by mail or online has become a popular way for busy people to shop. You can order food, office supplies, clothes, and movies through mail-order catalogues or online.

To order from a catalogue, you may need to complete a form and calculate the total cost of your order. Sometimes you may need to add sales tax and a shipping and handling charge.

Jana is the office manager for a print shop. She orders office supplies through a catalogue. Calculate the total cost of her order before tax.

Row	Item	Description	Price	How	Total Price
No.	No.			many?	(How many
					x Price)
1.	33B	Pens	\$3.98	4	
2.	667	Notebooks	\$8.27	7	
3.	895	USB Drives	\$2.98	12	
4.	44A	Printer cartridges	\$27.85	2	
5.	34Z	Copy paper (case)	\$29.99	3	
6.	89B	Sticky Notes	\$10.99	24	
			Subtotal		
			Shipping & Handling		+\$5.50
			Sub-Total		
			Tax		
			Total		

Module 4: Multiplying Whole Numbers Review

Write the number sentence.

1. Five times six equals thirty.

2. Nine times eight equals seventy-two.

3. Seven times five equals thirty-five.

Multiply.

Estimate the product.