

Module 4

Multiplying Real-Life Numbers

Part 1: The Meaning of Multiplication

Exercise 1-A

1. 2; 3; 6 2. 6; 3; 18 3. 8; 2; 16 4. 2; 9; 18

Exercise 1-B

5. $6 \times 4 = 24$ 6. $9 \times 3 = 27$
7. $3 \times 6 = 18$ 8. $2 \times 7 = 14$

Exercise 1-C

9. $4 \times 4 = 16$ 10. $2 \times 6 = 12$
11. $5 \times 5 = 25$ 12. $7 \times 2 = 14$

Exercise 1-D

13. 4 14. 10 15. 12 16. 32

Part 2: Multiplication Facts

Exercise 2-A

1. 24; 24 2. 24; 24

Exercise 2-B

3. 24 4. 6 5. 42 6. 27 7. 56
8. 15 9. 16 10. 72 11. 30 12. 36
13. 10 14. 28 15. 45 16. 42 17. 32

Exercise 2-C

18. less 19. greater 20. greater
21. less 22. less 23. greater

Part 3: Properties of Multiplication

Exercise 3-A

1. 6 2. 7 3. 18 4. 0 5. 9 6. 28 7. 0
8. 15 9. 8 10. 12 11. 0 12. 8 13. 24 14. 0
15. 9

Exercise 3-B

16. 24 17. 18 18. 24 19. 12 20. 0
21. 30

Exercise 3-C

22. 24 23. 72 24. 55 25. 8

Part 4: Multiplying by 10s, 100s, 1,000s**Exercise 4-A**

1. 6 2. 60 3. 600 4. 3,000
5. 6,000 6. 6 7. 60 8. 300
9. 600 10. 6,000 11. 9 12. 90
13. 900 14. 9,000 15. 30,000

Exercise 4-B

16. 2; 20; 200; 2,000 17. 3; 30; 300; 3,000
18. 5; 50; 500; 5,000 19. 7; 70; 700; 7,000
20. 8, 80; 800; 8,000 21. 12; 120; 1,200; 12,000
22. 20; 200; 2,000; 20,000 23. 28; 280; 2,800; 28,000
24. 32; 320; 3,200; 32,000 25. 36; 360; 3,600; 36,000

Exercise 4-C

26. 70 27. 300 28. 8,000 29. 700
30. 4,000 31. 120 32. 1,200 33. 5,000
34. 10,000 35. 800 36. 1,600 37. 16,000
38. 400 39. 27,000 40. 50 41. 18,000
42. 1,000 43. 18,000 44. 200 45. 1,500

Exercise 4-D

46. 2,500 47. 48,000 48. 3,200 49. 600

Part 5: Estimating Products**Exercise 5-A**

1. 40 2. 50 3. 400 4. 800
5. 3,000 6. 5,000 7. 7,000 8. 9,000

Exercise 5-B

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|------------|------------|------------|------------|
| 9. 100 | 10. 80 | 11. 180 | 12. 320 |
| 13. 210 | 14. 600 | 15. 2,500 | 16. 3,600 |
| 17. 3,600 | 18. 3,500 | 19. 7,000 | 20. 24,000 |
| 21. 15,000 | 22. 35,000 | 23. 35,000 | 24. 1,000 |
| 25. 18,000 | 26. 24,000 | 27. 3,600 | 28. 20,000 |

Writing in Math

29. to 31. Answers will vary

Part 6: Problem Solving Strategy- Using Patterns**Exercise 6-A**

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|-------|-------|-------|-----------|------------|
| 1. 28 | 2. 27 | 3. 30 | 4. Yellow | 5. 90 min. |
|-------|-------|-------|-----------|------------|

Part 7: Multiplying 2-Digit Numbers**Exercise 7-A**

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|-----------|-----------|-----------|-----------|-----------|
| 1. 72 | 2. 162 | 3. 84 | 4. 315 | 5. 336 |
| 6. 161 | 7. 264 | 8. 702 | 9. 335 | 10. 176 |
| 11. 1,170 | 12. 1,575 | 13. 486 | 14. 1,806 | 15. 1,961 |
| 16. 1,485 | 17. 1,666 | 18. 2,170 | 19. 2,597 | 20. 2,025 |
| 21. 1,066 | 22. 4,611 | 23. 2,835 | 24. 3,034 | 25. 5,432 |

Part 8: Multiplying 3-Digit Numbers**Exercise 8-A**

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|------------|------------|------------|------------|------------|
| 1. 810 | 2. 747 | 3. 2,468 | 4. 1,008 | 5. 1,815 |
| 6. 1,228 | 7. 1,260 | 8. 2,552 | 9. 3,636 | 10. 1,368 |
| 11. 10,406 | 12. 33,972 | 13. 1,937 | 14. 11,076 | 15. 12,992 |
| 16. 34,398 | 17. 11,875 | 18. 17,391 | 19. 10,442 | 20. 9,240 |
| 21. 7,625 | 22. 13,596 | 23. 3,024 | 24. 11,575 | 25. 12,887 |

Critical Thinking

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| 26. 98,901 | 27. 1,000 |
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Part 9: Multiplying Money

Exercise 9-A

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|--------------|--------------|--------------|--------------|
| 1. \$4.41 | 2. \$7.47 | 3. \$4.48 | 4. \$8.05 |
| 5. \$27.23 | 6. \$36.82 | 7. \$55.40 | 8. \$67.89 |
| 9. \$151.60 | 10. \$198.45 | 11. \$351.56 | 12. \$100.50 |
| 13. \$22.25 | 14. \$24.18 | 15. \$158.76 | 16. \$158.73 |
| 17. \$211.56 | 18. \$314.13 | 19. \$178.25 | 20. \$419.71 |

Real-Life Math

Exercise 9-B

21. \$45.50 22. \$17.40

Real-Life Math

Module #4 Task-based Activity: Catalogue Orders

Row No.	Item No.	Description	Price	How many?	Total Price (How many x Price)
1.	33-B	Pens	\$3.98	4	\$ 15.92
2.	66-7	Notebooks	\$8.27	7	\$ 57.89
3.	89-5	Floppy Disks	\$2.98	12	\$ 35.76
4.	44-A	Fax Paper	\$27.85	2	\$ 55.70
5.	34-Z	Adding Machine Tape	\$29.99	3	\$ 89.97
6.	89-B	Sticky Notes	\$10.99	24	\$263.76
			Subtotal		\$519.00
			Shipping & Handling		+\$ 5.50
			Total		\$524.50

Review

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|----------------------|----------------------|----------------------|------------|-------------|
| 1. $5 \times 6 = 30$ | 2. $9 \times 8 = 72$ | 3. $7 \times 5 = 35$ | 4. 0 | 5. 8 |
| 6. 90 | 7. 6 | 8. 1,000 | 9. 14,000 | 10. 20 |
| 11. 48 | 12. 162 | 13. 66 | 14. 770 | 15. 624 |
| 16. 492 | 17. 1,134 | 18. 1, 287 | 19. \$9.45 | 20. \$19.53 |
| 21. 3,861 | 22. 10, 892 | 23. 17, 952 | 24. 120 | 25. 2,800 |
| 26. 32,000 | 27. 34,000 | | | |