Name: **School:** **Grade:** **Class:**

3-6 Multiplying Decimals by Whole Numbers - Practice and Problem Solving

Multiply.

11. 1.2×7

8.4

13. 0.7×9

6.3

15. 2×1.3

2.6

17. 0.8×9

7.2

19. 3×0.02

0.06

21. 0.0036×19

0.0684

23. **ALGEBRA** Evaluate $3.05n$ if $n = 27$.

$3.05n = 3.05 \times 27$

$$\begin{array}{r} 3.05 \\ \times \quad 27 \\ \hline 82.35 \end{array}$$

$n = 82.35$

Multiply.

25. 5.2×10

52

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27. $1.5 \times 1{,}000$

1,500

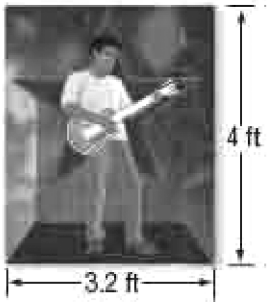
29. 2.5×10

25.0

31. $3.45 \times 1{,}000$

3,450

33. **MEASUREMENT** Asher recently bought the poster 3.2 ft4 ftshown at the right. What is its area?



Multiply.

$$\begin{array}{r} 3.2 \\ \times \quad 4 \\ \hline 12.8 \end{array}$$

12.8 ft^2

35. **MEASUREMENT** The height of Mount Everest, in meters, can be found by multiplying 8.85 by 1,000. Find the height of Mount Everest.

Use mental math.
$8.85 \times 1{,}000 = 8{,}850$ m

Use the order of operations to find the value of each expression.

37. $2 \times 3.8 + 1.5$

$2 \times 3.8 + 1.5 = (2 \times 3.8) + 1.5 = 9.1$

39. $3 \times 2.14 \times 10$

$3 \times 2.14 \times 10 = (3 \times 2.14) \times 10 = 64.2$

41. $11 \times 7.85 + 33$

$11 \times 7.85 + 33 = (11 \times 7.85) + 33 = 119.35$

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43. **MEASUREMENT** The thickness of each type of coin is shown in the table. How much thicker is a stack of a dollar's worth of nickels than a dollar's worth of quarters?

Coin	Thickness (mm)
penny	1.55
nickel	1.95
dime	1.35
quarter	1.75

20 nickels = \$1.00; 20 × 1.95 = 39
4 quarters = \$1.00; 4 × 1.75 = 7
39 – 7 = 32
The dollar worth of nickels are 32 mm thicker than the dollar worth of quarters.

45. **CHALLENGE** Discuss two different ways to find the value of the expression 5.4 × 1.17 × 100 that do not require you to first multiply 5.4 × 1.17.

Sample answer: First evaluate 1.17 × 100 to be 117. Then multiply 117 by 5.4 to get the answer of 631.8. Or first evaluate 5.4 × 100 to be 540. Then multiply 540 by 1.17 to get the answer of 631.8. Or first evaluate 5.4 × 10 to be 54 and 1.17 × 10 to be 11.7. Then multiply 54 by 11.7 to get the answer of 631.8.

47. A recipe for a batch of cookies calls for one 5.75-ounce package of coconut. How many ounces of coconut are needed for 5 batches of cookies?
A 20.50 oz
B 25.25 oz
C 28.75 oz
D 29.75 oz

5.75 × 5 = 28.75
The answer is C; 28.75 oz.

For Exercises 49 and 50, refer to the table that shows the music sales in the United States in a recent year that were devoted to different types of music.

49. What were the total sales for rock and country?

Total Music Sales	
Type of Music	**Sales (millions of \$)**
rock	3,864.89
rap/hip-hop	1,631.84
R&B/urban	1,251.49
country	1,533.69
pop	993.83
other	2,785.18
Source: Recording Industry of America	

3,864.89 + 1,533.69 = 5,398.58 million

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51. **FUNDRAISING** During a fundraiser at her school, Careta sold $78.35 worth of candy. Diego sold $59.94 worth of candy. Use front-end estimation to find about how much more Careta sold.

$$\begin{array}{r} 78.35 \\ -59.94 \end{array} \rightarrow \begin{array}{r} 70.00 \\ -50.00 \\ \hline 20.00 \end{array}$$

$70 – $50 = $20 Careta sold $20 more than Diego.

Use >, <, or = to compare each pair of decimals.

53. 61.32 ● 61.23

>

Find the value of each expression.

55. 43 × 25

1,075

57. 18 × 165

2,970