Name _____

CHAPTER 9

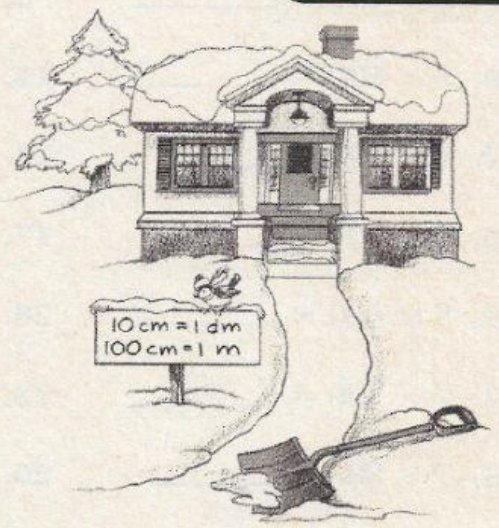
Multiplying Whole Numbers

Lesson 9-1

It's Algebra!

Multiplying by Powers of 10

Ricky's job is shoveling snow from his front walk. The walk is 9 meters long. Find the length of Ricky's shoveling job in centimeters.



We want to know how many centimeters of walk Ricky has to shovel.

The walk is _____ meters long.

Each meter contains _____ centimeters. To find the length of the walk in centimeters, we multiply _____ by _____.

Study these multiplications:

$3 \times 1 = 3$	$4 \times 1 = 4$	$6 \times 2 = 12$	$9 \times 6 = 54$
$3 \times 10 = 30$	$4 \times 10 = 40$	$6 \times 20 = 120$	$9 \times 60 = 540$
$3 \times 100 = 300$	$4 \times 100 = 400$	$6 \times 200 = 1{,}200$	$9 \times 600 = 5{,}400$
$3 \times 1{,}000 = 3{,}000$	$4 \times 1{,}000 = 4{,}000$	$6 \times 2{,}000 = 12{,}000$	$9 \times 6{,}000 = 54{,}000$

Multiply the digits that are not zeros. The product has the same number of zeros as there are zeros in the factors.

$9 \times 100 =$ _____

Ricky's front walk is _____ centimeters long.

Getting Started

Multiply.

1. $6 \times 100 =$ _____
2. $5 \times 100 =$ _____
3. $7 \times 1{,}000 =$ _____
4. $9 \times 10 =$ _____
5. $7 \times 6{,}000 =$ _____
6. $6 \times 9{,}000 =$ _____

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Practice

Multiply.

1. $5 \times 100 =$ _____
2. $6 \times 3{,}000 =$ _____
3. $9 \times 20 =$ _____
4. $7 \times 10 =$ _____
5. $7 \times 1{,}000 =$ _____
6. $3 \times 80 =$ _____
7. $5 \times 400 =$ _____
8. $2 \times 9{,}000 =$ _____
9. $9 \times 700 =$ _____
10. $8 \times 800 =$ _____
11. $3 \times 5{,}000 =$ _____
12. $8 \times 7{,}000 =$ _____
13. $4 \times 40 =$ _____
14. $7 \times 300 =$ _____
15. $2 \times 6{,}000 =$ _____
16. $6 \times 70 =$ _____
17. $5 \times 2{,}000 =$ _____
18. $9 \times 80 =$ _____
19. $5 \times 600 =$ _____
20. $8 \times 4{,}000 =$ _____
21. $9 \times 30 =$ _____
22. $7 \times 700 =$ _____
23. $6 \times 5{,}000 =$ _____
24. $4 \times 300 =$ _____
25. $7 \times 80 =$ _____
26. $7 \times 6{,}000 =$ _____
27. $4 \times 9{,}000 =$ _____
28. $5 \times 800 =$ _____
29. $3 \times 700 =$ _____
30. $8 \times 5{,}000 =$ _____
31. $2 \times 8{,}000 =$ _____
32. $9 \times 9{,}000 =$ _____
33. $6 \times 40 =$ _____
34. $2 \times 7{,}000 =$ _____
35. $4 \times 500 =$ _____
36. $9 \times 60 =$ _____
37. $6 \times 6{,}000 =$ _____
38. $4 \times 8{,}000 =$ _____
39. $9 \times 400 =$ _____

Problem Solving

Solve each problem.

40. How many centimeters long is a table that is 9 decimeters in length?

41. A carton of drinking straws contains 800 straws. How many straws are in 7 cartons?

42. Computers cost $2,000 each. How much will a school pay for 7 computers?

43. A small car weighs 3,000 pounds. How much do 8 small cars weigh?

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