Multiplication with Decimals and Whole Numbers

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Interactive Examples

Find the product.

1.
```
    5.2
×     4
   20.8
```
Think: The place value of the decimal factor is tenths.

2.
```
    9.8
×     6
```

3.
```
   13.02
×      5
```

4.
```
    8.42
×      9
```

5.
```
   14.05
×      7
```

6.
```
   23.82
×      5
```

7. 4×9.3

8. 3×7.9

9. 5×42.89

10. 8×2.6

11. 6×0.92

12. 9×1.04

13. 7×2.18

14. 3×19.54

Problem Solving Real World

15. A half-dollar coin issued by the United States Mint measures 30.61 millimeters across. Mikk has 9 half-dollar coins. He lines them up edge to edge in a row. What is the total length of the row of half-dollar coins?

16. One pound of grapes costs $3.49. Linda buys exactly 3 pounds of grapes. How much will the grapes cost?

17. **WRITE** ▸ *Math* Compare and contrast the methods you can use to multiply a whole number and a decimal.

Lesson Check

18. Pete wants to make turkey sandwiches for two friends and himself. He wants each sandwich to contain 3.5 ounces of turkey. How many ounces of turkey does he need?

19. Gasoline costs $3.37 per gallon. Mila's father puts 9 gallons of gasoline in the tank of his car. How much will the gasoline cost?

Spiral Review

20. A group of 5 boys and 8 girls goes to the fair. Admission costs $9 per person. What expression can show the total amount the group will pay?

21. Akira and 4 friends buy a box of 362 baseball cards at a yard sale. If they share the cards equally, how many cards will each person receive?

22. Jaina rides her bicycle 2.7 miles to school. She takes a different route home, which is 2.5 miles. How many miles does Sarah ride to and from school each day?

23. Domingo has a box of 15 markers. He gives 3 markers each to 4 friends. What expression can show the number of markers Domingo has left?