

# Decimal Multiplication

**Set out.** Multiply as if the decimal number were a whole number, then place the decimal so the product keeps the same number of decimal places.

SEE ONE

$$\begin{array}{r} 59.7 \\ \times 10 \\ \hline 597 \end{array}$$

Multiply as if the decimal number were a whole number, then place the decimal so the product keeps the same number of decimal places.

$$59.7 \times 10 = 597$$

TRY THE TRAIL

1

Multiply as whole numbers.

2

Count the decimal places.

3

Place the decimal in the product.

**Notice this:** Multiplying by a whole number does not add more decimal places to the decimal factor.

**Ready?** Flip the page and use the same move on each problem.



# Decimal Multiplication

**Do:** Solve each problem. Use the picture or place-value setup when it is shown.

1

$$\begin{array}{r} 54.3 \\ \times \quad 5 \\ \hline \end{array}$$

2

$$\begin{array}{r} 77.44 \\ \times \quad 12 \\ \hline \end{array}$$

3

$$\begin{array}{r} 31.7 \\ \times \quad 8 \\ \hline \end{array}$$

4

$$\begin{array}{r} 4.08 \\ \times \quad 3 \\ \hline \end{array}$$

5

$$\begin{array}{r} 41.1 \\ \times \quad 4 \\ \hline \end{array}$$

6

$$\begin{array}{r} 46.25 \\ \times \quad 8 \\ \hline \end{array}$$

CHECK YOUR TRAIL SENSE

Try this one without help.

$$\begin{array}{r} 99.63 \\ \times \quad 12 \\ \hline \end{array}$$

One careful line at a time. Accuracy comes before speed.

**For the grown-up:** How many decimal places were in the decimal factor before you multiplied? Keep the answers on the separate key page.



# Decimal Multiplication

**Keep going:** Complete all 24. Work straight down each column.

$$\begin{array}{r} 1 \quad 51.7 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 77.3 \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 55.8 \\ \times \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 63.39 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 3.1 \\ \times \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 96.93 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 35.9 \\ \times \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 16.01 \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 31.1 \\ \times \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 44.73 \\ \times \quad 10 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 12.8 \\ \times \quad 10 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 76.81 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 58.1 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 70.33 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 12.8 \\ \times \quad 11 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 72.12 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 8.2 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 11.42 \\ \times \quad 11 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 79.4 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 2.19 \\ \times \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 4.6 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 53.28 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 99.7 \\ \times \quad 12 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 39.54 \\ \times \quad 4 \\ \hline \end{array}$$

Steady repetition makes the next problem feel familiar.



# Decimal Multiplication

**Outcome:** Your child can multiply a decimal by a whole number using place value.  
**Readiness:** Start here if your child can multiply whole numbers and understands tenths and hundredths.

GUIDED PAGE ANSWERS

1. 271.5      2. 929.28      3. 253.6      4. 12.24      5. 164.4      6. 370      **Check.** 1195.56

PRACTICE PAGE ANSWERS

1. 258.5      2. 154.6      3. 334.8      4. 316.95      5. 24.8      6. 484.65      7. 251.3      8. 32.02  
9. 217.7      10. 447.3      11. 128      12. 307.24      13. 174.3      14. 210.99      15. 140.8      16. 288.48  
17. 24.6      18. 125.62      19. 317.6      20. 17.52      21. 13.8      22. 159.84      23. 1196.4      24. 158.16

WATCH FOR

Your child lines up decimal points as if the problem were addition.

SAY THIS

“How many decimal places were in the decimal factor before you multiplied?”

NEXT USEFUL TRAIL

Fraction Multiplication

Recipe multiplication.decimal-multiplication.a.v1 · Seed 62000

