

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

$$\begin{array}{r} 45.5 \\ \times 7 \\ \hline 318.5 \end{array}$$

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

$$45.5 \times 7 = 318.5$$

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

$$\begin{array}{r} 72.2 \\ \times \quad 5 \\ \hline \end{array}$$

2

$$\begin{array}{r} 33.74 \\ \times \quad 6 \\ \hline \end{array}$$

3

$$\begin{array}{r} 62.5 \\ \times \quad 12 \\ \hline \end{array}$$

4

$$\begin{array}{r} 77.54 \\ \times \quad 7 \\ \hline \end{array}$$

5

$$\begin{array}{r} 15.9 \\ \times \quad 5 \\ \hline \end{array}$$

6

$$\begin{array}{r} 65.51 \\ \times \quad 8 \\ \hline \end{array}$$

CHECK YOUR TRAIL SENSE

Try this one without help.

$$\begin{array}{r} 92.26 \\ \times \quad 5 \\ \hline \end{array}$$

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.

$$\begin{array}{r} 1 \quad 17.3 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 8.23 \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 93.9 \\ \times \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 88.42 \\ \times \quad 10 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 94.7 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 55.21 \\ \times \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 82.4 \\ \times \quad 12 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 27.07 \\ \times \quad 10 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 10.3 \\ \times \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 74.14 \\ \times \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 91.7 \\ \times \quad 12 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 55.73 \\ \times \quad 12 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 4.5 \\ \times \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 84.25 \\ \times \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 5.5 \\ \times \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 5.25 \\ \times \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 81.4 \\ \times \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 11.27 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 59.6 \\ \times \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 43.41 \\ \times \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 72.9 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 18.26 \\ \times \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 29.4 \\ \times \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 62.84 \\ \times \quad 11 \\ \hline \end{array}$$

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. 361 2. 202.44 3. 750 4. 542.78 5. 79.5 6. 524.08 Check. 461.3

PRACTICE PAGE ANSWERS

1. 69.2 2. 16.46 3. 845.1 4. 884.2 5. 378.8 6. 386.47 7. 988.8 8. 270.7
9. 72.1 10. 518.98 11. 1100.4 12. 668.76 13. 40.5 14. 505.5 15. 49.5 16. 31.5
17. 569.8 18. 56.35 19. 476.8 20. 303.87 21. 291.6 22. 164.34 23. 235.2 24. 691.24

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

