

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

$$\begin{array}{r} 34.4 \\ \times 7 \\ \hline 240.8 \end{array}$$

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

$$34.4 \times 7 = 240.8$$

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

$$\begin{array}{r} 43.1 \\ \times \quad 8 \\ \hline \end{array}$$

2

$$\begin{array}{r} 35.31 \\ \times \quad 11 \\ \hline \end{array}$$

3

$$\begin{array}{r} 52.6 \\ \times \quad 6 \\ \hline \end{array}$$

4

$$\begin{array}{r} 65.96 \\ \times \quad 6 \\ \hline \end{array}$$

5

$$\begin{array}{r} 1.5 \\ \times \quad 11 \\ \hline \end{array}$$

6

$$\begin{array}{r} 5.08 \\ \times \quad 3 \\ \hline \end{array}$$

CHECK YOUR TRAIL SENSE

Try this one without help.

$$\begin{array}{r} 65.61 \\ \times \quad 6 \\ \hline \end{array}$$

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.

$$\begin{array}{r} 1 \quad 95.1 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 60.97 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 49.1 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 91.9 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 27.7 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 75.32 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 36.5 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 43.39 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 44.6 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 56.03 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 56.1 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 44.37 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 78.3 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 36.31 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 30.1 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 92.95 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 10.8 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 11.83 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 9.3 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 60.19 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 80.5 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 65.74 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 55.6 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 51.84 \\ \times 8 \\ \hline \end{array}$$

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. 344.8
2. 388.41
3. 315.6
4. 395.76
5. 16.5
6. 15.24
- Check. 393.66

PRACTICE PAGE ANSWERS

1. 951
2. 182.91
3. 98.2
4. 459.5
5. 166.2
6. 753.2
7. 219
8. 347.12
9. 401.4
10. 224.12
11. 280.5
12. 177.48
13. 939.6
14. 254.17
15. 301
16. 836.55
17. 54
18. 35.49
19. 93
20. 300.95
21. 563.5
22. 328.7
23. 278
24. 414.72

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.c.v1 · Seed 64027

