

LONG DIVISION WITH DECIMALS - A

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HELPFUL EXAMPLE

BEFORE YOU BEGIN, BRING THE DECIMAL STRAIGHT UP.

6 DIVIDED BY 3 EQUALS 2.

3 DIVIDED BY 3 EQUALS 1.

3 x 21.04 = 63.12 ANSWER

1 IS TOO SMALL, SO PUT A 0.

12 DIVIDED BY 3 EQUALS 4.

$$\begin{array}{r} 3 \overline{)63\uparrow 12} \\ \underline{-6} \\ 0 \end{array} \Rightarrow \begin{array}{r} 2 \\ 3 \overline{)63} \\ \underline{-6} \\ 03 \\ \underline{-03} \\ 00 \end{array} \Rightarrow \begin{array}{r} 21 \\ 3 \overline{)63} \\ \underline{-63} \\ 00 \end{array} \Rightarrow \begin{array}{r} 21.0 \\ 3 \overline{)63.1} \\ \underline{-63} \\ 001 \\ \underline{-00} \\ 001 \end{array} \Rightarrow \begin{array}{r} 21.04 \\ 3 \overline{)63.12} \\ \underline{-63} \\ 001 \\ \underline{-00} \\ 0012 \\ \underline{-0012} \\ 00 \end{array}$$

DIVIDE.

- | | | | | |
|------------------------------------|-------------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| 1. $4 \overline{)1.52}$
0.38 | 2. $3 \overline{)12.3}$
4.1 | 3. $2 \overline{)482}$
241 | 4. $5 \overline{)34.5}$
6.9 | 5. $8 \overline{)5.84}$
0.73 |
| 6. $7 \overline{)64.4}$
9.2 | 7. $6 \overline{)8.28}$
1.38 | 8. $9 \overline{).765}$
0.085 | 9. $4 \overline{)412}$
103 | 10. $7 \overline{).847}$
0.121 |
| 11. $2 \overline{)58.04}$
29.02 | 12. $5 \overline{)8,240}$
1,648 | 13. $3 \overline{)5.721}$
1.907 | 14. $8 \overline{)45.04}$
5.63 | 15. $4 \overline{).2356}$
0.0589 |
| 16. $7 \overline{)6.662}$
0.952 | 17. $3 \overline{).0585}$
0.0195 | 18. $8 \overline{)740.8}$
92.6 | 19. $6 \overline{)8,388}$
1,398 | 20. $9 \overline{)68.67}$
7.63 |

LONG DIVISION WITH DECIMALS - B

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SOMETIMES YOU'LL HAVE TO ADD THE DECIMAL.

BRING THE DECIMAL STRAIGHT UP.

WHEN YOU FINISH DIVIDING YOU STILL HAVE 1 LEFT.

ADD A DECIMAL TO THE ORIGINAL PROBLEM.

THIS DECIMAL ALLOWS YOU TO ADD 0's.

NOW YOU CAN FINISH DIVIDING.

2 x 21.5 = 43

$$\begin{array}{r} 2 \overline{)43} \\ \underline{-4} \\ 03 \\ \underline{-02} \\ 1 \end{array} \Rightarrow \begin{array}{r} 21 \\ 2 \overline{)43.} \\ \underline{-4} \\ 03 \end{array} \Rightarrow \begin{array}{r} 21.0 \\ 2 \overline{)43.0} \\ \underline{-4} \\ 030 \\ \underline{-020} \\ 10 \end{array} \Rightarrow \begin{array}{r} 21.5 \\ 2 \overline{)43.0} \\ \underline{-4} \\ 030 \\ \underline{-020} \\ 100 \\ \underline{-100} \\ 00 \end{array}$$

DIVIDE.

- | | | | | | |
|---------------------------------|---------------------------------|----------------------------------|---------------------------------|---------------------------------|----------------------------------|
| 1. $2 \overline{)57}$
28.5 | 2. $4 \overline{)70}$
17.5 | 3. $5 \overline{)85}$
17 | 4. $3 \overline{)72}$
24 | 5. $5 \overline{)97}$
19.4 | 6. $2 \overline{)81}$
40.5 |
| 7. $2 \overline{)49}$
24.5 | 8. $4 \overline{)84}$
21 | 9. $6 \overline{)57}$
9.5 | 10. $5 \overline{)83}$
16.6 | 11. $3 \overline{)78}$
26 | 12. $4 \overline{)82}$
20.5 |
| 13. $5 \overline{)104}$
20.8 | 14. $8 \overline{)252}$
31.5 | 15. $3 \overline{)141}$
47 | 16. $2 \overline{)170}$
85.0 | 17. $4 \overline{)118}$
29.5 | 18. $7 \overline{)238}$
34 |
| 19. $6 \overline{)165}$
27.5 | 20. $9 \overline{)288}$
32 | 21. $2 \overline{)213}$
106.5 | 22. $4 \overline{)174}$
43.5 | 23. $3 \overline{)321}$
107 | 24. $5 \overline{)651}$
130.2 |