

LONG DIVISION WITH DECIMALS - A

ANSWERS - PAGE 1

HELPFUL EXAMPLE $4 \overline{)65}$ SOMETIMES YOU NEED TO ADD MORE THAN ONE ZERO.

$$\begin{array}{r}
 16 \\
 4 \overline{)65} \Rightarrow 4 \overline{)65.} \Rightarrow 4 \overline{)65.0} \Rightarrow 4 \overline{)65.0} \Rightarrow 4 \overline{)65.00} \Rightarrow 4 \overline{)65.00} \\
 \begin{array}{r}
 -4 \\
 \hline
 25 \\
 -24 \\
 \hline
 01
 \end{array}
 \Rightarrow
 \begin{array}{r}
 16. \\
 -4 \\
 \hline
 25 \\
 -24 \\
 \hline
 01
 \end{array}
 \Rightarrow
 \begin{array}{r}
 16. \\
 -4 \\
 \hline
 25 \\
 -24 \\
 \hline
 01 \ 0
 \end{array}
 \Rightarrow
 \begin{array}{r}
 16.2 \\
 -4 \\
 \hline
 25 \\
 -24 \\
 \hline
 1 \ 0
 \end{array}
 \Rightarrow
 \begin{array}{r}
 16.2 \\
 -4 \\
 \hline
 25 \\
 -24 \\
 \hline
 1 \ 0 \\
 20
 \end{array}
 \Rightarrow
 \begin{array}{r}
 16.25 \\
 -4 \\
 \hline
 25 \\
 -24 \\
 \hline
 1 \ 0 \\
 20 \\
 00
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 16.25 \\
 \times 4 \\
 \hline
 65.00
 \end{array}$$

WHEN YOU FINISH DIVIDING YOU STILL HAVE 1 LEFT. ADD A DECIMAL TO THE ORIGINAL PROBLEM, SO YOU CAN START ADDING 0's.

BUT ONE ZERO IS NOT ENOUGH. YOU HAVE TO ADD ANOTHER TO FINISH THE PROBLEM.

DIVIDE.

1. $4 \overline{)37}$ 2. $2 \overline{)89}$ 3. $8 \overline{)91}$ 4. $3 \overline{)78}$ 5. $6 \overline{)93}$ 6. $4 \overline{)85}$

9.250 44.500 11.375 26.000 15.500 21.250

7. $5 \overline{)99}$ 8. $8 \overline{)78}$ 9. $4 \overline{)92}$ 10. $2 \overline{)67}$ 11. $4 \overline{)79}$ 12. $8 \overline{)95}$

19.8 9.75 23 33.5 19.75 11.875

13. $4 \overline{)9.90}$ 14. $5 \overline{)91.60}$ 15. $3 \overline{)612}$ 16. $2 \overline{)0.139}$ 17. $8 \overline{)0.032}$

2.475 18.32 204 0.0695 0.004

18. $9 \overline{)43.2}$ 19. $8 \overline{)3.25}$ 20. $5 \overline{)4.71}$ 21. $7 \overline{)0.56}$ 22. $4 \overline{)379}$

4.8 0.40625 0.942 0.08 94.75

LONG DIVISION WITH DECIMALS - B

ANSWERS - PAGE 2

HELPFUL EXAMPLE $11 \overline{)2.4}$ SOMETIMES YOU CAN'T ADD ENOUGH ZEROS.

$$\begin{array}{r}
 0.2 \\
 11 \overline{)2.4} \Rightarrow 11 \overline{)2.40} \Rightarrow 11 \overline{)2.40} \Rightarrow 11 \overline{)2.400} \Rightarrow 11 \overline{)2.4000} \\
 \begin{array}{r}
 -0 \\
 \hline
 2 \ 4 \\
 -2 \ 2 \\
 \hline
 0 \ 2
 \end{array}
 \Rightarrow
 \begin{array}{r}
 0.2 \\
 -0 \\
 \hline
 2 \ 4 \\
 -2 \ 2 \\
 \hline
 0 \ 20
 \end{array}
 \Rightarrow
 \begin{array}{r}
 0.21 \\
 -0 \\
 \hline
 2 \ 4 \\
 -2 \ 2 \\
 \hline
 20
 \end{array}
 \Rightarrow
 \begin{array}{r}
 0.218 \\
 -0 \\
 \hline
 2 \ 4 \\
 -2 \ 2 \\
 \hline
 20 \\
 20
 \end{array}
 \Rightarrow
 \begin{array}{r}
 0.2181 \\
 -0 \\
 \hline
 2 \ 4 \\
 -2 \ 2 \\
 \hline
 20 \\
 20 \\
 11
 \end{array}
 \end{array}$$

IT WILL REPEAT THE SAME NUMBERS OVER AND OVER (.21818181818...). THIS IS CALLED A REPEATER.

YOU WRITE THE ANSWER LIKE THIS: $0.21\bar{8}$
THE BAR (LINE) GOES OVER THE NUMBERS THAT REPEAT.

WHEN YOU FINISH DIVIDING YOU STILL HAVE 2 LEFT. YOU WILL NEED TO START ADDING 0's.

THIS PROBLEM WILL GO FOREVER AND EVER AND NEVER STOP.

DIVIDE.

USE REPEATER BAR WHEN NEEDED.

1. $3 \overline{)50}$ 2. $4 \overline{)92}$ 3. $9 \overline{)95}$ 4. $8 \overline{)38}$ 5. $4 \overline{)89}$ 6. $6 \overline{)71}$

16.666 23 10.555 4.75 22.25 11.833

7. $12 \overline{)49}$ 8. $11 \overline{)80}$ 9. $10 \overline{)54}$ 10. $2 \overline{)84}$ 11. $13 \overline{)99}$

4.0833 7.2727 5.4 42 7.6154
7.615384615384

12. $9 \overline{)37}$ 13. $5 \overline{)6.6}$ 14. $6 \overline{)0.246}$ 15. $2 \overline{)45.3}$ 16. $3 \overline{)7.40}$ 17. $4 \overline{)123}$

0.0411 1.32 0.041 22.65 2.466 30.75

18. $10 \overline{)3.47}$ 19. $15 \overline{)306}$ 20. $12 \overline{)56.7}$ 21. $11 \overline{)24.5}$ 22. $13 \overline{)0.12}$

0.347 20.4 4.725 2.22727 0.009231
0.00923076923076