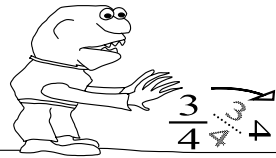


FRACTIONS TO DECIMALS - A

ANSWERS - PAGE 1



HELPFUL EXAMPLE

USE WHAT YOU KNOW ABOUT DECIMALS TO SOLVE THE DIVISION PROBLEM

ANSWER

$$\frac{3}{4} \Rightarrow 4 \overline{)3} \Rightarrow 4 \overline{)30} \Rightarrow 4 \overline{)300} \Rightarrow 4 \overline{)3000}$$

$$\begin{array}{r} 0 \\ 4 \overline{)3000} \\ \underline{-0} \\ 30 \\ \underline{-28} \\ 20 \\ \underline{-20} \\ 0 \end{array}$$

$\frac{3}{4} = .75$

IN CASE YOU WERE WONDERING: TO CHANGE A FRACTION TO LONG DIVISION, THINK OF A FRACTION HATING MONSTER WHO LOVES PUSHING FRACTIONS OVER. DO YOU SEE WHAT HAPPENS AFTER IT FALLS?

REWRITE AND SOLVE.

1. $\frac{2}{5} = \underline{0.4}$ 2. $\frac{1}{8} = \underline{0.125}$ 3. $\frac{3}{10} = \underline{0.3}$ 4. $\frac{1}{4} = \underline{0.25}$

5. $\frac{7}{10} = \underline{0.7}$ 6. $\frac{4}{5} = \underline{0.8}$ 7. $\frac{3}{8} = \underline{0.375}$ 8. $\frac{1}{2} = \underline{0.5}$

DO YOU REMEMBER: REPEATERS, REPEATERS, REPEATERS?

9. $\frac{1}{3} = \underline{0.333}$ 10. $\frac{2}{9} = \underline{0.222}$ 11. $\frac{3}{5} = \underline{0.6}$ 12. $\frac{6}{7} = \underline{0.8571}$

13. $\frac{6}{6} = \underline{1}$ 14. $\frac{2}{11} = \underline{0.1818}$ 15. $\frac{9}{10} = \underline{0.9}$ 16. $\frac{2}{3} = \underline{0.667}$

17. $\frac{2}{7} = \underline{0.2857}$ 18. $\frac{5}{6} = \underline{0.833}$ 19. $\frac{1}{12} = \underline{0.0833}$ 20. $\frac{3}{20} = \underline{0.15}$

FRACTIONS TO DECIMALS - B

ANSWERS - PAGE 2

HELPFUL EXAMPLE

SOMETIMES YOU CAN SAVE TIME BY SIMPLIFYING THE FRACTION BEFORE CHANGING IT TO A DIVISION PROBLEM.

$$\frac{10 \div 10}{20 \div 10} = \frac{1}{2} \Rightarrow 2 \overline{)1} \Rightarrow 2 \overline{)10} \Rightarrow 2 \overline{)100}$$

$$\begin{array}{r} 0.5 \\ 2 \overline{)100} \\ \underline{-0} \\ 10 \\ \underline{-10} \\ 0 \end{array}$$

$\frac{1}{2} = .5$

DON'T FORGET, WHATEVER YOU DO TO THE TOP YOU HAVE TO DO TO THE BOTTOM, OR VICE VERSA.

REWRITE AND SOLVE.

1. $\frac{9}{12} = \underline{0.75}$ 2. $\frac{7}{8} = \underline{0.875}$ 3. $\frac{25}{30} = \underline{0.833}$ 4. $\frac{6}{11} = \underline{0.545}$

5. $\frac{10}{24} = \underline{0.4167}$ 6. $\frac{15}{15} = \underline{1}$ 7. $\frac{16}{18} = \underline{0.889}$ 8. $\frac{6}{36} = \underline{0.167}$

9. $\frac{7}{13} = \underline{0.5385}$ 10. $\frac{24}{48} = \underline{0.5}$ 11. $\frac{20}{44} = \underline{0.4545}$ 12. $\frac{9}{21} = \underline{0.4286}$

13. $\frac{11}{55} = \underline{0.2}$ 14. $\frac{5}{8} = \underline{0.625}$ 15. $\frac{10}{17} = \underline{0.5882}$ 16. $\frac{12}{45} = \underline{0.2667}$

17. $\frac{6}{7} = \underline{0.857}$ 18. $\frac{10}{100} = \underline{0.1}$ 19. $\frac{11}{12} = \underline{0.9167}$ 20. $\frac{9}{27} = \underline{0.333}$

21. $\frac{3}{14} = \underline{0.2143}$ 22. $\frac{36}{234} = \underline{0.1538}$ 23. $\frac{7}{15} = \underline{0.4667}$ 24. $\frac{22}{242} = \underline{0.0909}$