

DIVIDING DECIMALS

8/27/21

* DIVIDING DECIMALS IS JUST LIKE
DIVIDING ANY OTHER NUMBER

YOU HAVE TO MAKE SURE YOUR DECIMAL
ENDS UP IN THE RIGHT PLACE.

BEFORE YOU DIVIDE, MAKE SURE YOU
ARE DIVIDING BY A WHOLE NUMBER

TO MAKE THE DIVISOR A WHOLE
NUMBER MOVE THE DECIMAL TO
THE RIGHT. →

THEN MOVE THE DECIMAL IN THE DIVIDEND
THE SAME NUMBER OF PLACES TO THE
RIGHT →

* IF THERE IS NO DECIMAL IN THE
NUMBER IT IS ALWAYS AT THE END

$$7 = 7. = 7.0 = 7.00$$

THE DECIMAL FLOATS UP FROM THE
DIVIDEND INTO THE QUOTIENT

Ex:

$$\begin{array}{r} 5 \\ 5 \overline{) 25} \\ \underline{-25} \\ 0 \end{array}$$

$$\begin{array}{r} .5 \\ 5 \overline{) 2.5} \\ \underline{-25} \\ 0 \end{array}$$

$$\begin{array}{r} 5. \\ 0.5 \overline{) 2.5} \\ \underline{-25} \\ 0 \end{array}$$

$$\begin{array}{r} 50. \\ 0.5 \overline{) 25.0} \\ \underline{-25} \downarrow \\ 00 \\ \underline{-0} \\ 0 \end{array}$$

YOU TRY

1) $2.32 \div 8 = \boxed{0.29}$

$$\begin{array}{r} 0.29 \\ 8 \overline{) 2.32} \\ \underline{-16} \downarrow \\ 72 \\ \underline{-72} \\ 0 \end{array}$$

2) $0.045 \div 0.09 = \boxed{0.5}$

$$\begin{array}{r} 000.5 \\ 0.09 \overline{) 0.045} \\ \underline{-45} \\ 0 \end{array}$$

3) $16.75 \div 2.5 = \boxed{6.7}$

$$\begin{array}{r} 006.7 \\ 2.5 \overline{) 16.75} \\ \underline{-150} \downarrow \\ 175 \\ \underline{-175} \\ 0 \end{array}$$