## Mathelpers

## Divide with Decimals

Mazen has saved 0.45 Aed each day. He now has a total of 10.80 Aed. How long has Mazen been saving?

To solve, you need to divide 10.80 Aed by 0.45.
STEP 1: Make the divisor a whole number by multiplying the divisor and dividend by a multiple of 10 .
$0 . 4 5 \longdiv { 1 0 . 8 0 }$
$4 5 \longdiv { 1 0 8 0 }$
$\times 100 \times 100$

STEP 2: Place the decimal point in the quotient directly above the decimal point in the Dividend.

Divide as you would with whole numbers.

$$
\begin{gathered}
24 \\
4 5 \longdiv { 1 0 8 0 } \\
\frac{-90}{180} \\
\frac{-180}{0}
\end{gathered}
$$

Since the remainder is 0 , the answer is a whole number. You do not need to show the decimal point. Mazen has been saving for 24 days.

## Examples:

A- Rewrite the problem so that the divisor is a whole number.
1)
2)

$$
2 . 1 \longdiv { 1 6 . 8 } \rightarrow 2 1 \longdiv { 1 6 8 }
$$

-168

$$
\begin{array}{r}
0 . 8 \longdiv { 1 3 . 6 } \rightarrow 8 \longdiv { 8 } \begin{array} { c } 
{ 1 7 } \\
{ \underline { - 8 } }
\end{array} \\
\hline 136 \\
\hline
\end{array}
$$

$$
0
$$

0

$$
0
$$

## B- Find the quotient.

3) $2.4 \div 0.4$
4) $0.63 \div 0.7$
9 $\qquad$
5) $0.72 \div 0.8$
$\qquad$
