

## Revised 2010

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## DIVISION OF DECIMAL BY WHOLE NUMBER

Objective: Divide decimals by whole number

## Review

A. Copy and multiply.

1) 4.761
2) 0.81
4.21
$\times 3$
$\begin{array}{r}0.86 \\ \times 0.96 \\ \hline\end{array}$
3) 5.134
5.25
$\times$
B. Solve these problems.
1. It rained 1.75 centimetres in one hour. How much rain fell in 0.6 of that hour?
2. Allan worked 6.5 hours in a day. If he earns $\mathcal{P} 50.00$ an hour, how much will Allan earn?
3. Each sheet of paper is 0.0025 cm thick. How thick is a stack of 50 sheets?
4. A piece of wood is 0.5 cm thick. How thick is a piece of wire 0.5 cm as thick?



Tony drove his car for 8 hours. It traveled a distance of 653.6 kilometres. How far did it travel in 1 hour?

Let's analyze the problem.

- What is asked in the problem?
- What are the given facts?
- What operation should be used?
- What is the number sentence?

Let's solve the problem.
81.7
$8 \longdiv { 6 5 3 . 6 }$
$\frac{-64}{13}$
$\frac{8}{56}$
$\frac{56}{x}$

- Divide decimals as you divide whole numbers.
- Put the decimal point in the quotient directly above the decimal point of the dividend.
- Check by multiplying the quotient and the divisor.

Checking:

| 81.7 | $\leftarrow$ quotient |
| ---: | :--- |
| $\times \quad 8$ | $\leftarrow$ divisor |
| 653.6 | $\leftarrow$ dividend |

Let's have another example.
A case of 12 bottles of juice contains a total of 16.32 litres. How much does each bottle hold?

$$
\begin{array}{rr}
\frac{1.36}{12} \begin{array}{|c}
16.32 \\
\frac{-12}{43}
\end{array} & \text { Check: } \\
\frac{-36}{72} & 1.36 \\
\frac{-72}{\underline{-}} & \frac{136}{272} \\
\hline 16.32
\end{array}
$$



Copy, solve and check.

1) $8 \longdiv { 0 . 5 2 }$
2) $9 \longdiv { 1 2 1 . 2 3 }$
3) $4 \longdiv { 1 4 . 6 6 8 }$
4) $1 4 \longdiv { 3 7 . 2 4 }$
5) $2 6 \longdiv { 1 3 5 . 2 }$


In dividing decimals by whole numbers:

- Divide as you would divide whole numbers.
- Put the decimal point in the quotient directly above the decimal point of the dividend.
- Check by multiplication.


## On Your Own

Divide and check.


Check your answer with the answer key. If you get...

4-5 Excellent! You may now proceed to the next lesson.
3 You need to review the processes you missed.
0-2 You need to repeat the whole process. Ask your teacher or elder to help you.

## Key to Correction

## DIVISION OF DECIMALS

## REVIEW

A.

1) 15.28281
2) 0.7776
3) 1.2835
B.
4) 1.05 cm
5) $P 325$
6) 0.125 cm
7) 0.25 cm

## TRY THESE

1) 0.44
2) 13.47
3) 3.667
4) 2.66
5) 5.2

ON YOUR OWN

1) 23.4
2) 1.235
3) 6.25
4) 7.77
5) 26.4
$\qquad$
