

Maths Homework 05.11.2021

For your maths homework this week please complete the questions on fractions, decimals and percentages below.

You may copy these into your homework book and solve them there.

Use the examples to help you.

Writing Fractions as Decimals

To write a fraction as a decimal, find an equivalent fraction with a denominator of 10, 100 or 1000. You can also use short division — just divide the numerator by the denominator.

Examples

Write $\frac{18}{200}$ as a decimal.
Find an equivalent fraction:

$$\frac{18}{200} \xrightarrow{+2} \frac{9}{100} = 0.09$$

Write $\frac{1}{8}$ as a decimal.
Find an equivalent fraction:

$$\frac{1}{8} \xrightarrow{\times 125} \frac{125}{1000} = 0.125$$

You could also do $1 \div 8$ using short division:

$$\begin{array}{r} 0.125 \\ 8 \overline{) 1.000} \end{array}$$

Write $\frac{1}{6}$ as a decimal, rounded to 3 decimal places.
Use short division:

$$\begin{array}{r} 0.1666 \\ 6 \overline{) 1.0000} \end{array}$$

0.1666 rounded to 3 decimal places is **0.167**

Set A

Find the missing number in the fraction, then write as a decimal:

1 $\frac{4}{5} = \frac{\square}{10} = \square$

2 $\frac{6}{50} = \frac{\square}{100} = \square$

3 $\frac{3}{20} = \frac{\square}{100} = \square$

4 $\frac{15}{25} = \frac{\square}{100} = \square$

Write as a decimal:

5 $\frac{1}{5}$

6 $\frac{8}{20}$

7 $\frac{14}{50}$

8 $1\frac{1}{2}$

9 $5\frac{1}{4}$

10 An eel is sixteen twentieths of a metre long. Write the length of the eel as a decimal.

11 Write $\frac{1}{3}$ as a decimal. Round your answer to 3 decimal places.