

26/1/21

LO: to turn fractions and percentages into decimals.

Yesterday – we reminded ourselves of how to order decimal numbers.
Let's see what you can remember.

Loom Link for this lesson:

<https://www.loom.com/share/f89273533bac4dde872df3b813a14dea>

STARTER

Order these decimals from largest to smallest:

0.87 0.871 0.5 0.67 0.57

TASK 1

Today, we are going to turn fractions and percentages into decimals:

NOTE: To turn a percentage into a decimal divide by 100 and to turn a fraction into a decimal divide the numerator by the denominator.

To divide by 100, move the number two place value columns to the right!

$354 \div 100 = 3.54$ 

Let's start with percentages. Turn the following percentages into decimals by dividing them by 100:

45% =

67% =

9% =

4% =

134% =

354% =

TASK 2

NOTE: To turn a percentage into a decimal divide by 100 and to turn a fraction into a decimal divide the numerator by the denominator.

Now let's look at fractions. Turn the following fractions into decimals by dividing the numerator by the denominator.

$$1) \quad \frac{1}{9} \quad \overline{) \quad} = \underline{\quad\quad\quad} \quad \text{(stop after 3dp)}$$

$$2) \quad \frac{3}{8} \quad \overline{) \quad} = \underline{\quad\quad\quad} \quad \text{(stop after 3dp)}$$

$$3) \quad \frac{1}{5} \quad \overline{) \quad} = \underline{\quad\quad\quad} \quad \text{(stop after 3dp)}$$

$$4) \quad \frac{1}{4} \quad \overline{) \quad} = \underline{\quad\quad\quad} \quad \text{(stop after 3dp)}$$

$$5) \quad \frac{5}{7} \quad \overline{) \quad} = \underline{\quad\quad\quad} \quad \text{(stop after 3dp)}$$

$$6) \quad \frac{1}{7} \quad \overline{) \quad} = \underline{\quad\quad\quad} \quad \text{(stop after 3dp)}$$

You will have to use short division!

$$\frac{6}{7} \quad 7 \overline{) \overset{0.857}{6.000}} = 0.857 \quad \text{(stop after 3dp)}$$

Now do the independent activity tasks 1 and 2.

Once you have finished these, have a go at the extension activity.