Year 5 Maths

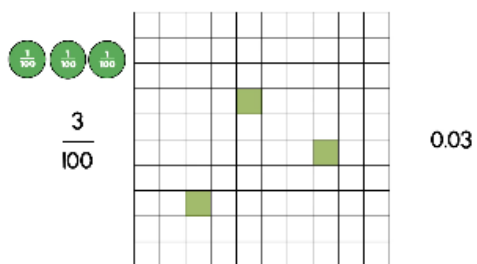**Steppingstone activity**

Week 1 Lesson 2 – 21.04.20

**LO: To recognise decimals as fractions**

Success Criteria:

1. Remember 1/100 = 0.01
2. Remember 10/100 = 1/10 = 0.1
3. Remember to use your place value columns from yesterday's work.

Model The decimal point separates the whole numbers from the decimals or parts of the number.

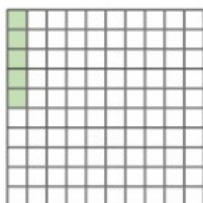**A 100 square can be divided into hundredths**

$\frac{3}{100}$ 0.03

Each row or column is equivalent to one tenth

$\frac{1}{10}$ is equal to $\frac{10}{100}$

$\frac{3}{10}$ are equal to $\frac{30}{100}$
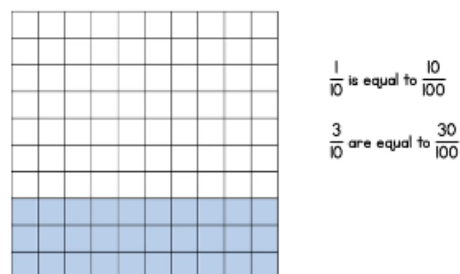
Now you try these:

The hundred square represents 1 whole.

a) What fraction is represented by the shaded squares? $\frac{5}{100}$

b) Convert the fraction to a decimal. 0.05

What fractions and decimals do the counters represent?

a) $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$

fraction = $\frac{4}{100}$ decimal = 0.04

b) $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$

fraction = $\frac{6}{100}$ decimal = 0.06

c) $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$

fraction = $\frac{7}{10}$ decimal = 0.7

Year 5 Maths

Week 1 Lesson 1 – 21.04.20
LO: To recognise decimals as fractions
Success Criteria:
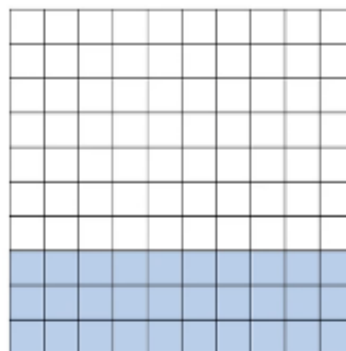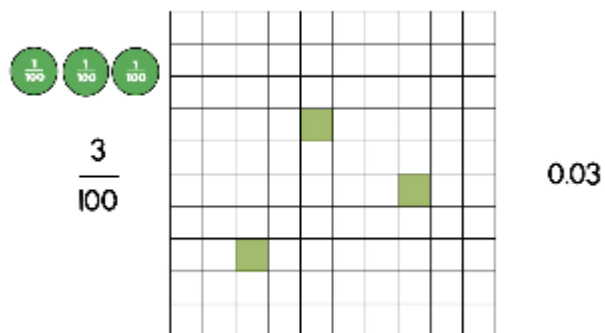
You are going to practise Decimals!

Success Criteria:

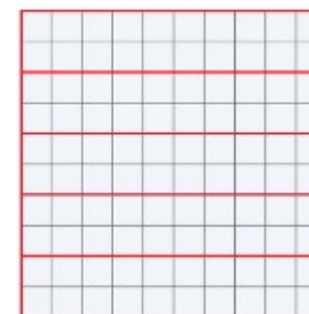| |
|---|
| 1. Remember 1/100 = 0.01 |
| 2. Remember 10/100 = 1/10 = 0.1 |
| 3. Remember to use your place value columns from yesterday's work. |

Model:

A 100 square can be divided into hundredths split into fifths – every 2 rows is 1/5
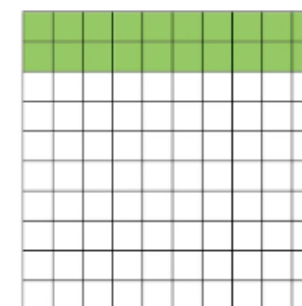
Each row or column is equivalent to one tenth

A 100 square can also be

$$\frac{3}{100}$$

0.03

$\frac{1}{10}$ is equal to $\frac{10}{100}$

$\frac{3}{10}$ are equal to $\frac{30}{100}$

$$\frac{1}{5}$$

$$\frac{1}{5} = \frac{2}{10} = 0.2$$

Complete the table.

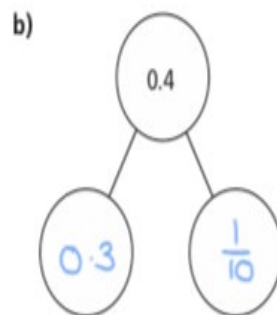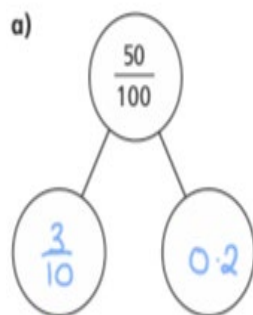| Fifths	Tenths	Decimals
$\frac{1}{5}$	$\frac{2}{10}$	0.2
$\frac{2}{5}$	$\frac{4}{10}$	0·4
$\frac{3}{5}$	$\frac{6}{10}$	0.6
$\frac{4}{5}$	$\frac{8}{10}$	0·8

Complete the part-whole models using fractions or decimals.

a)

$\frac{50}{100}$ → $\frac{3}{10}$, 0.2

b)

0.4 → $0·3$, $\frac{1}{10}$

Write <, > or = to complete the statements.

a) 0.4 $=$ $\frac{40}{100}$

b) 0.02 $<$ $\frac{20}{100}$

c) 0.6 $=$ $\frac{6}{10}$

d) 0.5 $>$ $\frac{5}{100}$

e) 0.88 $=$ $\frac{88}{100}$

f) 0.88 $<$ $\frac{89}{100}$

Here is a number line.

0 ——————————— 1

0.3   0.75   0.15   1.0
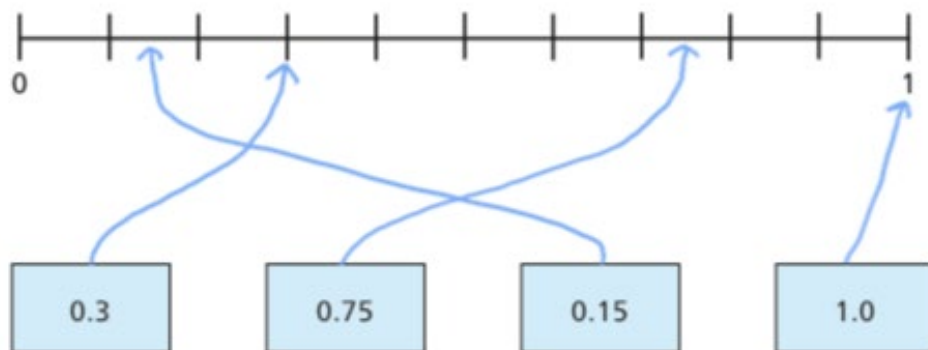
Draw arrows from the numbers to show their place on the line.

Huan says he has coloured 0.6 of the hundred square.
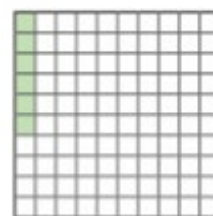
Explain the mistake that Huan has made.

He has coloured in 6 hundredths not 6 tenths.