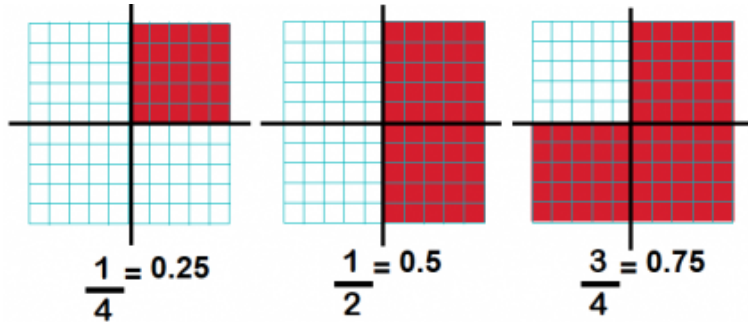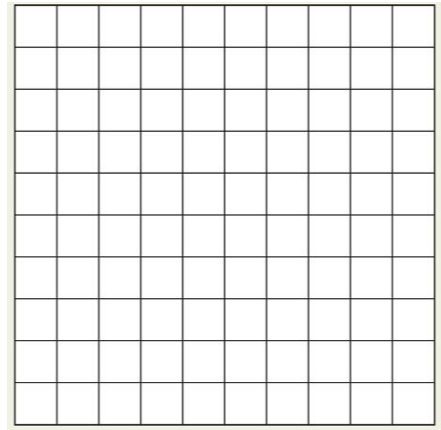## 20/1/2021 (Wednesday) – L.I. Can I understand the link between decimals and fractions?

Decimals and fractions both represent a value of less than 1. If the whole of this 100 square was coloured in I could represent it as 100/100 (simplified to 1/1) or as 1.

$\frac{1}{4} = 0.25$ $\frac{1}{2} = 0.5$ $\frac{3}{4} = 0.75$

If the hundred square represents 1 whole then by colouring in 50 squares I have coloured in 0.5 of the square or 1/2.

To convert a Decimal to a Fraction follow these steps:

- **Step 1:** Write down the decimal divided by 1, like this: $\frac{decimal}{1}$
- **Step 2:** Multiply both top and bottom by 10 for every number after the decimal point. (For example, if there are two numbers after the decimal point, then use 100, if there are three then use 1000, etc.)
- **Step 3:** Simplify (or reduce) the fraction.

Can you convert these decimals to fractions? If the fraction can be simplified with an equivalent fraction use the second line to show this.

1. $0.27 = \frac{27}{100}$

2. $0.50 = $ —— ——

3. $0.30 = $ —— ——

4. $0.64 = $ —— ——

5. $0.55 = $ —— ——

6. $0.60 = $ —— ——

7. $0.45 = $ —— ——

8. $0.80 = $ —— ——

9. $0.10 = $ —— ——

Extra Challenge – Can you convert this fraction to a decimal? 2/5