Equivalent fractions and simplifying fractions

You'll need you multiplying and dividing skills for this lesson so it would be a great idea to complete a TT Rockstars warm up first!

Look at these 2 links:

https://www.bbc.co.uk/bitesize/topics/zsxhfg8/articles/zwjwgdm equivalent fractions

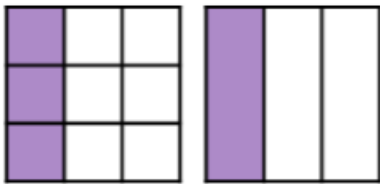https://www.bbc.co.uk/bitesize/topics/zhdwxnb/articles/zcdgxfr simplifying fractions

Take two pieces of paper the same size.
Fold one piece into two equal pieces.
Fold the other into eight equal pieces.
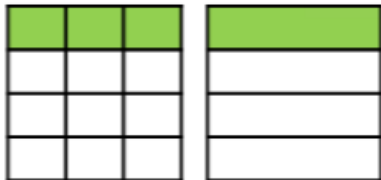What equivalent fractions can you find?
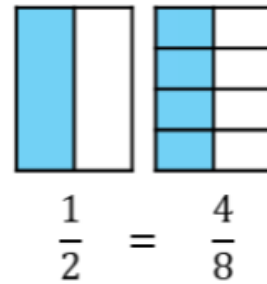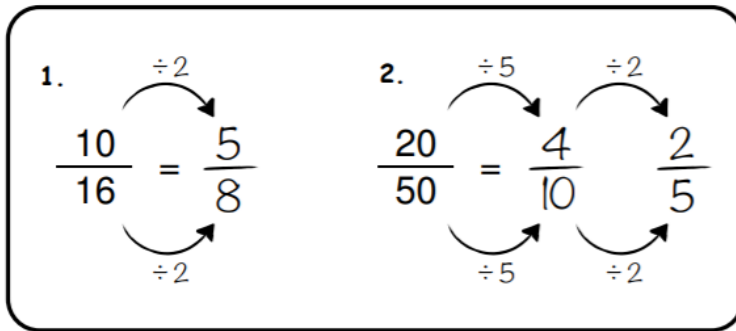
Use the models to write equivalent fractions.

$$\frac{1}{2} = \frac{4}{8}$$

a)

b)

c)

Mark these then answer the questions below on simplifying fractions.

Examples:

1.

$$\frac{10}{16} = \frac{5}{8}$$

$\div 2$ (numerator), $\div 2$ (denominator)

2.

$$\frac{20}{50} = \frac{4}{10} \quad \frac{2}{5}$$

$\div 5$, $\div 2$ (numerators), $\div 5$, $\div 2$ (denominators)

$$\frac{18}{20} = \qquad \frac{14}{24} =$$

$$\frac{3}{30} = \qquad \frac{4}{40} =$$

$$\frac{10}{45} = \qquad \frac{2}{6} =$$

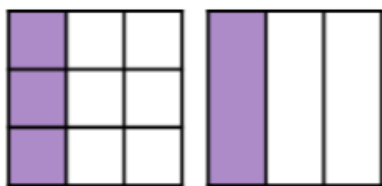$$\frac{5}{15} = \qquad \frac{45}{50} =$$

ANSWERS

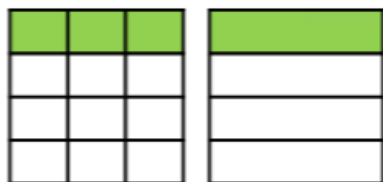Sorry I can't write fractions properly on a word document but hopefully it makes sense.

a)

1/3 = 3/9

These are also equal to 2/6 – you didn't need to do this one to be correct!

b)

3/12 = 1/4

These are also equivalent to 2/8

c)

2/5 = 4/10

$\frac{18}{20}$ = 9/10

$\frac{14}{24}$ = 7/12

$\frac{3}{30}$ = 1/10

$\frac{4}{40}$ = 2/20 -> 1/10

$\frac{10}{45}$ = 2/9

$\frac{2}{6}$ = 1/3

$\frac{5}{15}$ = 1/3

$\frac{45}{50}$ = 9/10