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

Task 1a

## Eva uses the models and her multiplication and division skills to find equivalent fractions.


denominator is 16

Use multiplication and the model
$2 / 4=? / 16$
$3 / 4=? / 16$
$4 / 4=? / 16$

Task 1b
Eva uses the same approach to find equivalent fractions for these fractions. How will her method change?

$$
\frac{4}{12}=\frac{\square}{3} \quad \frac{6}{12}=\frac{\square}{4} \quad \frac{6}{12}=\frac{\square}{2}
$$

## Simplifying Fractions

## Examples:


2.
$\frac{20}{50}=\frac{4}{10} \underbrace{\frac{2}{5}}_{\div 5}$

Simplify the following fractions in your book using the method shown above.:

1. $\frac{2}{4}$
2. $\frac{35}{40}$
3

3. $\frac{18}{20}$
4. $\frac{4}{36}$
5. $\frac{5}{35}$

## Task 3

Rosie says,


Using her method, here are the equivalent fractions Rosie has found for $\frac{4}{8}$

$$
\begin{array}{ll}
\frac{4}{8}=\frac{8}{16} & \frac{4}{8}=\frac{6}{10} \\
\frac{4}{8}=\frac{2}{4} & \frac{4}{8}=\frac{1}{5}
\end{array}
$$

Are all Rosie's fractions equivalent?
Does Rosie's method work?
Explain your reasons.

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

## Task 1a

$2 / 4=8 / 16$
$3 / 4=12 / 16$

## $4 / 4=16 / 16=1$ whole

## Task 1b

She will need to divide NOT multiply this time

$$
\frac{4}{12}=\frac{1}{3}
$$

$$
\frac{6}{12}=\frac{2}{4}
$$

$$
\frac{6}{12}=\frac{1}{2}
$$

Task 2

1. $\frac{2}{4} 1 / 2$
2. $\frac{35}{40} 7 / 8$
3. $\frac{3}{6}$
1/2
4. 


5. $\frac{4}{36}$
2/18
$1 / 9$
6. $\frac{5}{35}$
1/7

Task 3

Rosie says,


Using her method, here are the equivalent fractions Rosie has found for $\frac{4}{8}$

$$
\begin{array}{ll}
\frac{4}{8}=\frac{8}{16} & \frac{4}{8}=\frac{6}{10} \\
\frac{4}{8}=\frac{2}{4} & \frac{4}{8}=\frac{1}{5}
\end{array}
$$

Are all Rosie's fractions equivalent?
Does Rosie's method work?
Explain your reasons.
$\frac{4}{8}=\frac{1}{5}$ and $\frac{4}{8}=\frac{6}{10}$
are incorrect.
Rosie's method
doesn't always work. It works when multiplying or dividing both the numerator or denominator but not when adding or subtracting the same thing to both.

