Simplify fractions

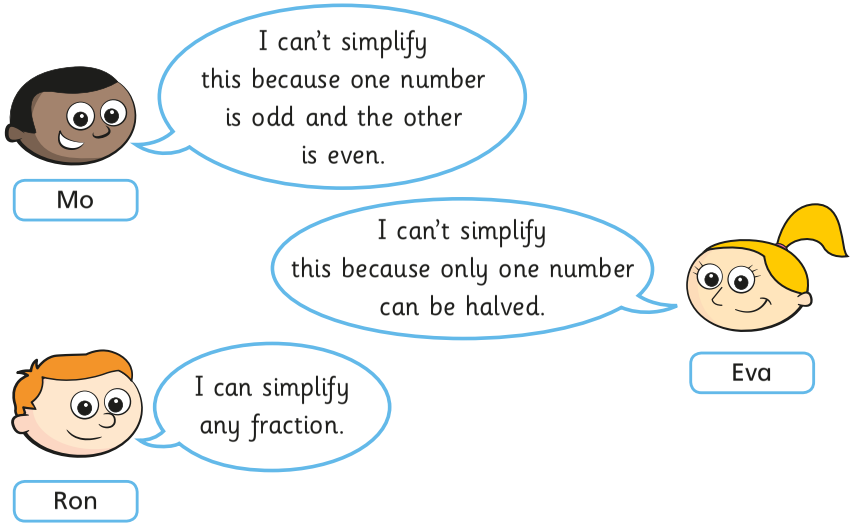
1 Use a fraction wall to write each fraction in its simplest form.

a) $\frac{4}{6}$ **b)** $\frac{8}{10}$ **c)** $\frac{6}{8}$ **d)** $\frac{4}{8}$

2 **a)** Use a fraction wall to explain why $\frac{7}{10}$ does not simplify.

b) Find three more fractions on the fraction wall that cannot be simplified.

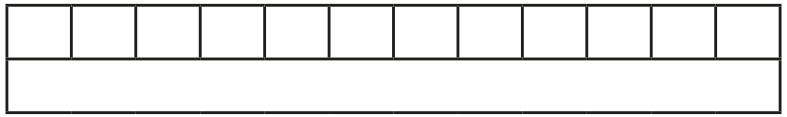
3 Mo, Eva and Ron are trying to simplify $\frac{5}{20}$



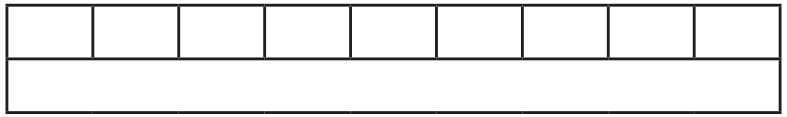
Do you fully agree, partly agree or completely disagree with each person?

Talk to a partner.

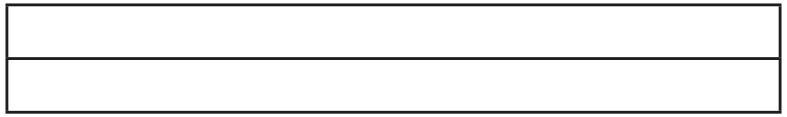
4 **a)** Draw lines on the bar model to show that $\frac{9}{12}$ is equal to $\frac{3}{4}$



b) Complete each bar model and calculation.



$\square = \frac{3}{9}$



$\square = \frac{5}{15}$

5 Simplify the fractions.

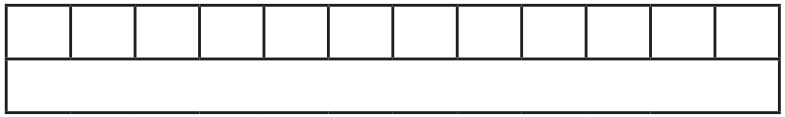
a)	**b)**	**c)**	**d)**
$\frac{4}{12}$	$\frac{8}{12}$	$\frac{40}{120}$	$\frac{12}{4}$
$\frac{4}{16}$	$\frac{8}{16}$	$\frac{40}{160}$	$\frac{120}{4}$
$\frac{4}{20}$	$\frac{8}{20}$	$\frac{40}{200}$	$\frac{12}{400}$

Describe and explain any patterns that you noticed.

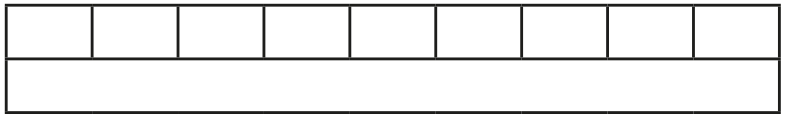
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Simplify fractions

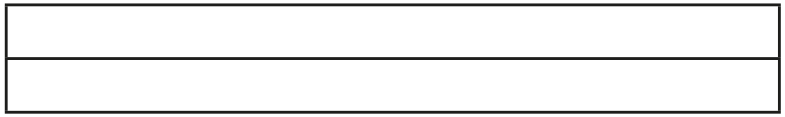
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$\square = \frac{3}{9}$



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5 Simplify the fractions.

a) $\frac{4}{12}$ $\frac{4}{16}$ $\frac{4}{20}$

b) $\frac{8}{12}$ $\frac{8}{16}$ $\frac{8}{20}$

c) $\frac{40}{120}$ $\frac{40}{160}$ $\frac{40}{200}$

d) $\frac{12}{4}$ $\frac{120}{4}$ $\frac{12}{400}$

Describe and explain any patterns that you noticed.

6 Write 3 fractions that simplify to $\frac{3}{5}$

7 Teddy and Dora are both simplifying $\frac{30}{42}$

Teddy

$\frac{30}{42} = \frac{15}{21} = \frac{5}{7}$

Dora

$\frac{30}{42} = \frac{5}{7}$

a) How do you think Dora was able to simplify the fraction in one step?

b) Simplify these fractions in one step.

$\frac{24}{30}$ $\frac{56}{64}$ $\frac{16}{20}$ $\frac{99}{121}$

8   is a prime number.  is a multiple of 10

The fraction can be simplified.

What could each number be? Explain your reasoning.

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