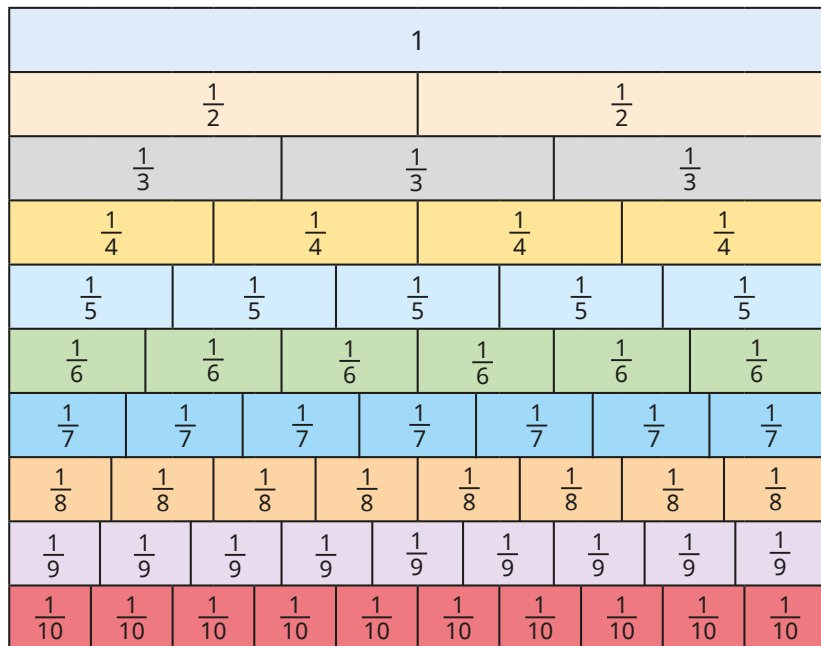


1 Here is a fraction wall.



Use the fraction wall to write each fraction in its simplest form.

- | | |
|-------------------|------------------|
| a) $\frac{4}{6}$ | c) $\frac{6}{8}$ |
| b) $\frac{8}{10}$ | 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 $\frac{5}{20}$



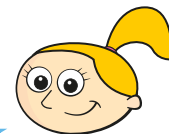
Mo

I cannot simplify this, because one number is odd and the other is even.



Ron

I can simplify any fraction.



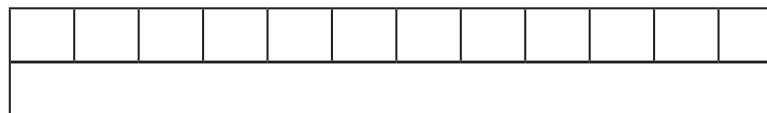
Eva

I cannot simplify this, because only one number can be halved.

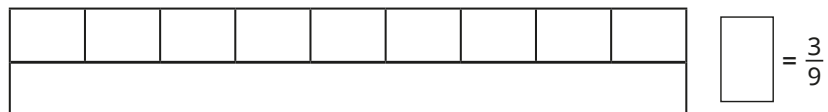
Do you fully agree, partly agree or completely disagree with each person?

Talk about it with a partner.

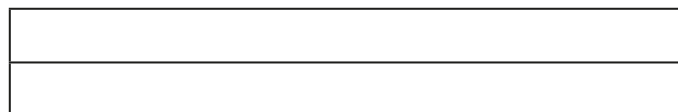
4 a) Draw lines on the bar model to show that $\frac{9}{12}$ is equal to $\frac{3}{4}$



b) Complete each bar model and calculation.



= $\frac{3}{9}$



= $\frac{5}{15}$



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



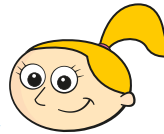
Mo

I cannot simplify this, because one number is odd and the other is even.



Ron

I can simplify any fraction.



Eva

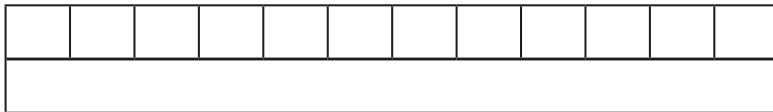
I cannot simplify this, because only one number can be halved.

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

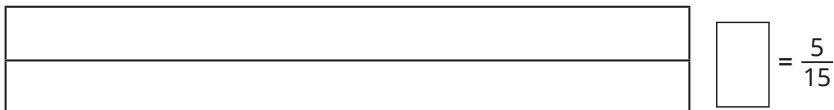
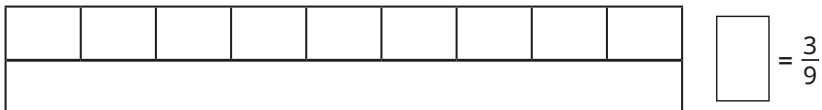
Talk about it with a partner.



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.



5 Simplify the fractions.

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

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

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

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

Describe and explain any patterns that you notice.

6 Write three 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 $\frac{\text{star}}{\text{heart}}$ can be simplified.

Find a pair of possible values.

Are there any other possible answers? Talk about it with a partner.

