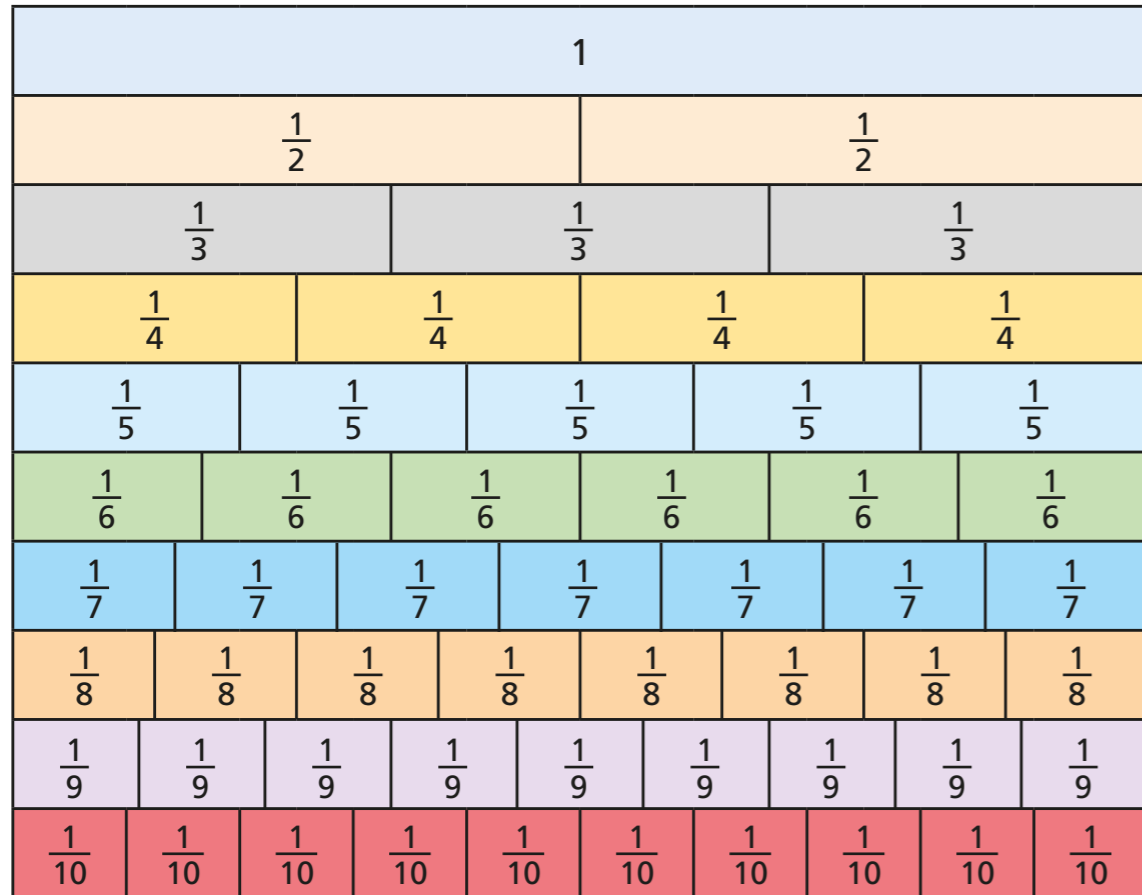


# Simplify fractions

1



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

a)  $\frac{4}{6} = \square$

c)  $\frac{6}{8} = \square$

b)  $\frac{8}{10} = \square$

d)  $\frac{4}{8} = \square$

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

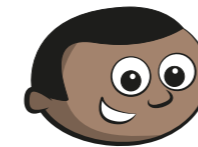
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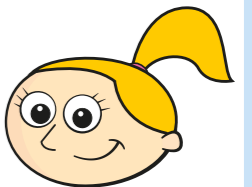
b) Find three more fractions on the fraction wall that cannot be simplified.

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



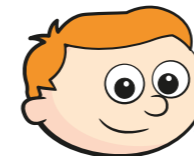
Mo

I can't simplify this because one number is odd and the other is even.



Eva

I can't simplify this because only one number can be halved.



Ron

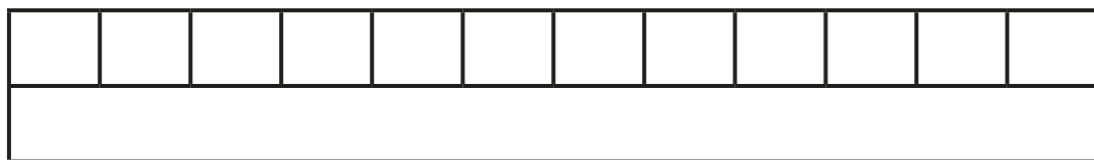
I can simplify any fraction.

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

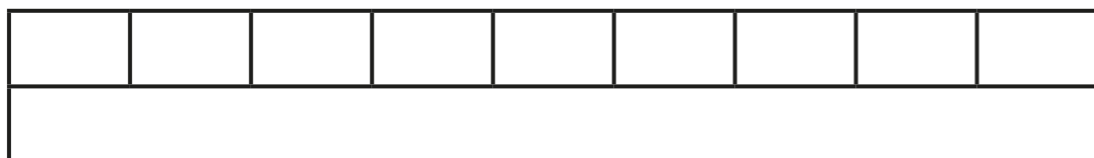
Talk to a partner.



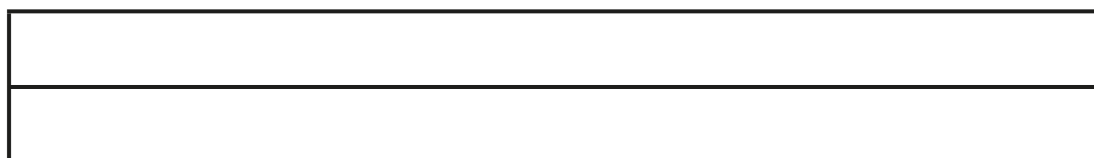
- 4 a) Draw lines on the bar model to show that  $\frac{9}{12}$  is equal to  $\frac{3}{4}$



- b) Complete each bar model and calculation.



$$\boxed{\phantom{00}} = \frac{3}{9}$$



$$\boxed{\phantom{00}} = \frac{5}{15}$$

- 5 Simplify the fractions.

a) $\frac{4}{12} = \boxed{\phantom{00}}$	b) $\frac{8}{12} = \boxed{\phantom{00}}$	c) $\frac{40}{120} = \boxed{\phantom{00}}$	d) $\frac{12}{4} = \boxed{\phantom{00}}$
$\frac{4}{16} = \boxed{\phantom{00}}$	$\frac{8}{16} = \boxed{\phantom{00}}$	$\frac{40}{160} = \boxed{\phantom{00}}$	$\frac{120}{4} = \boxed{\phantom{00}}$
$\frac{4}{20} = \boxed{\phantom{00}}$	$\frac{8}{20} = \boxed{\phantom{00}}$	$\frac{40}{200} = \boxed{\phantom{00}}$	$\frac{12}{400} = \boxed{\phantom{00}}$

Describe and explain any patterns that you noticed.

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- 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.

$$\frac{24}{30} = \boxed{\phantom{00}} \qquad \frac{16}{20} = \boxed{\phantom{00}}$$

$$\frac{56}{64} = \boxed{\phantom{00}} \qquad \frac{99}{121} = \boxed{\phantom{00}}$$

- 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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