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

a)
$$\frac{4}{6} = \frac{2}{3}$$

c)
$$\frac{6}{8} = \frac{3}{4}$$

b)
$$\frac{8}{10} = \frac{4}{5}$$

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

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

It is already in its simplest form.

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





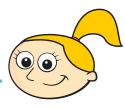


Mo, Eva and Ron are trying to simplify $\frac{5}{20}$

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

Mo

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



Eva



I can simplify any fraction.



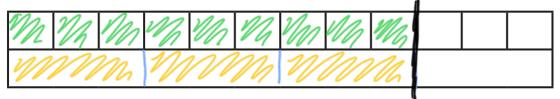
Ron

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

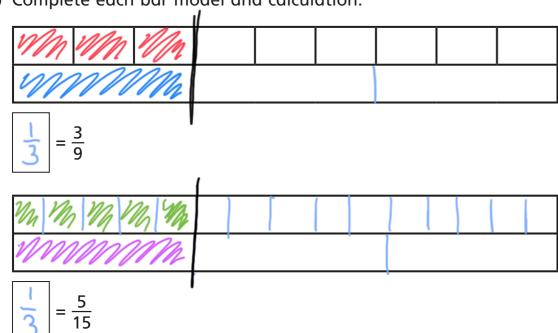
Talk to a partner.



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.



Simplify the fractions.

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

b)
$$\frac{8}{12} = \frac{2}{3}$$

c)
$$\frac{40}{120} = \boxed{\frac{1}{3}}$$

d)
$$\frac{12}{4} = \boxed{3}$$

$$\frac{4}{16} = \boxed{\frac{1}{4}}$$

$$\frac{8}{16} = \boxed{\frac{1}{2}}$$

$$\frac{40}{160} = \boxed{\frac{1}{4}}$$

$$\frac{120}{4} = 30$$

$$\frac{4}{20} = \boxed{\frac{1}{5}}$$

$$\frac{8}{20} = \boxed{\frac{2}{5}}$$

$$\frac{40}{200} = \boxed{\frac{1}{5}}$$

$$\frac{12}{400} = \frac{3}{100}$$

Describe and explain any patterns that you noticed.

Various answers



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

e.g.
$$\frac{6}{10}$$

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

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

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.

$$\frac{24}{30} = \frac{4}{5}$$

$$\frac{16}{20} = \frac{4}{5}$$

$$\frac{56}{64} = \boxed{\frac{7}{8}}$$

$$\frac{99}{121} = \frac{9}{11}$$



is a prime number. is a multiple of 10



The fraction can be simplified.

What could each number be? Explain your reasoning.

2 is prime, 20 is a multiple of 10

and
$$\frac{2}{20} = \frac{1}{10}$$

so star could be 2 and heart could be 20