Simplifying fractions

1 What fraction of each shape is shaded?

Simplify your fraction.

a)

$$\frac{2}{10} = \frac{1}{\square}$$

÷ 2 (above) ÷ 2 (below)

b)

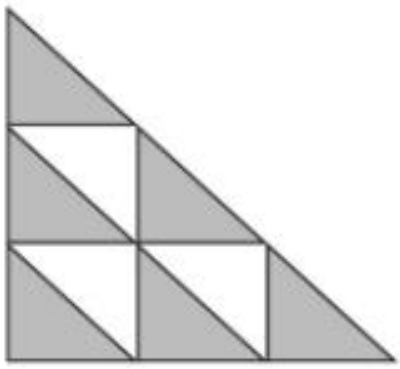
$$\frac{5}{10} = \frac{\square}{\square}$$

÷ □ (above) ÷ □ (below)

2 What fraction of each shape is shaded?

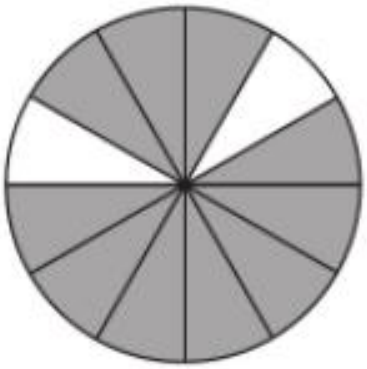
Give your answer in its simplest form.

a)



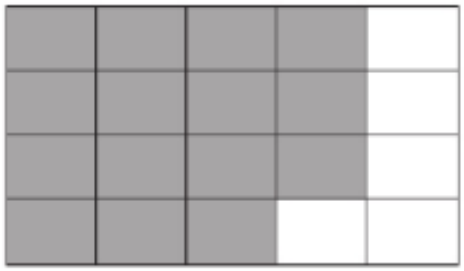
$$\frac{\square}{\square} = \frac{\square}{\square}$$

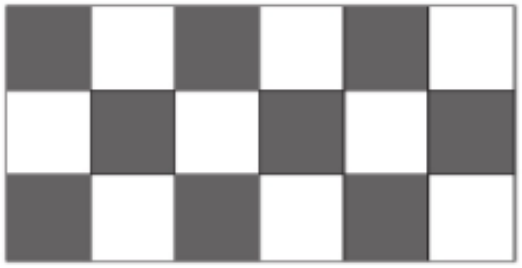
b)

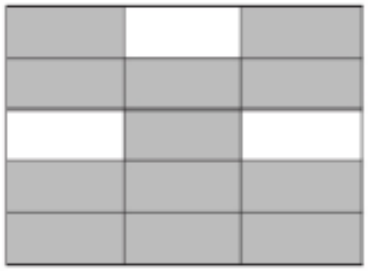


$$\frac{\square}{\square} = \frac{\square}{\square}$$

3 Draw lines to match each diagram to its fraction in its simplest form.







$\frac{2}{5}$

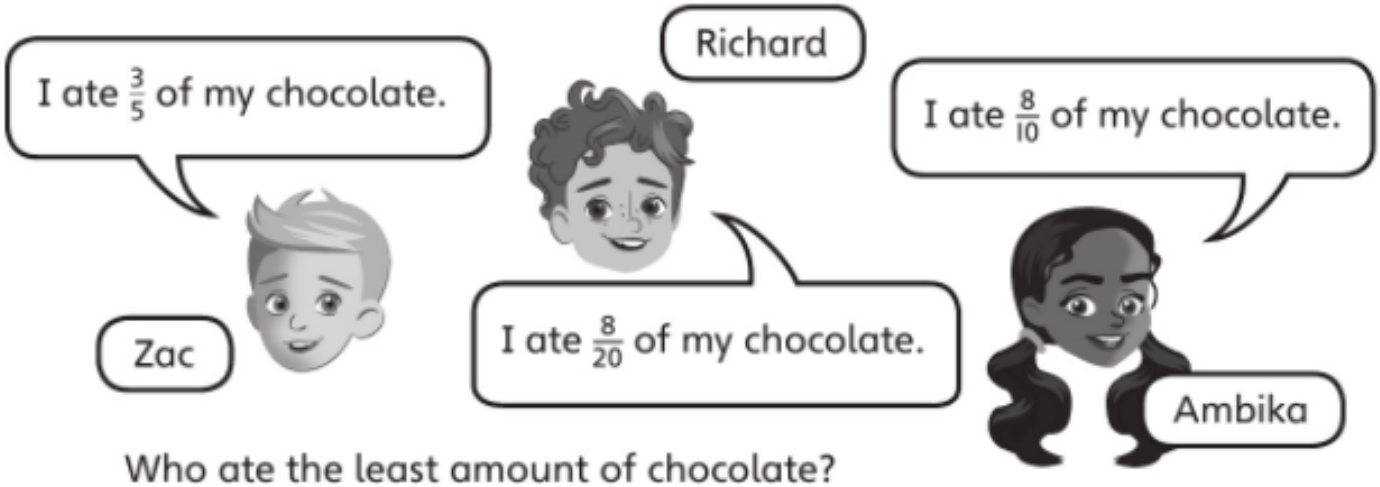
$\frac{4}{5}$

$\frac{1}{3}$

$\frac{1}{2}$

$\frac{3}{4}$

4 A group of friends are all given the same chocolate bar. After a week they have eaten different amounts.



Who ate the least amount of chocolate?

_____ ate the least amount of chocolate.

5 What is the most efficient way to simplify these fractions?

a) $\frac{12}{30}$

b) $\frac{8}{32}$

c) $\frac{18}{36}$

6 Lee thinks that this fraction cannot be simplified any further.

Do you agree? Explain your answer.

$$\frac{12}{36} \overset{\div 2}{=} \frac{6}{18} \overset{\div 2}{=} \frac{3}{9}$$

CHALLENGE

Reflect

How do you know when a fraction is in its simplest form?