## Simplifying fractions

## Discover

Player I: Get the cows into the pen.

I) a) Bella gets 2 cows into the pen before the time runs out.

What is her score? Give your answer as a fraction in its simplest form.
b) Lee gets 9 of the 12 sheep into the pen.

What is his score? Give your answer as a fraction in its simplest form.

## Share

a)


Bella's score is 2 out of 4 .
We can write this fraction as $\frac{2}{4}$.
$\div 2$

$\frac{2}{4}$ can be simplified to $\frac{1}{2}$. Bella's score is $\frac{1}{2}$.
b) Lee gets $\frac{9}{12}$ of the sheep in the pen.


We can divide the numerator and the denominator by 3 because 3 is a common factor of 9 and 12 .


Lee's score is $\frac{3}{4}$.

To find a fraction's simplest form we divide the numerator and the denominator by a common factor.

I divided the numerator and denominator by 2 because 2 is a common factor of 2 and 4.


These fractions represent the same amount, but one is written in its simplest form.


## Simplifying fractions

I Write in the missing numbers to simplify the fractions.
a)
b)
c)


2 Simplify these fractions.
a) $\frac{14}{24}=\frac{\square}{\square}$
b) $\frac{6}{15}=\square$
c) $\frac{20}{45}=\frac{\square}{\square}$
d) $\frac{12}{16}=\square$
e) $\frac{72}{\square}=\frac{9}{10}$
f) $\frac{\square}{24}=\frac{3}{4}$

3 Write in the missing numbers.

$$
\frac{90}{120}=\frac{\square}{60}=\frac{15}{\square}=\frac{\square}{4}
$$

4 Shade in the shapes to show the fractions.
a)

c)

b)

$\frac{6}{9}$
d)


5 Ebo thinks $\frac{4}{6}$ in its simplest form is $\frac{1}{1.5}$.
Is Ebo correct? Explain how you know.
$\qquad$
$\qquad$

6 Circle the fraction that is not equivalent to the other fractions.
a) $\frac{5}{15}$ $\frac{15}{45}$
$\frac{10}{20}$
$\frac{20}{60}$
b) $\frac{12}{18}$ $\frac{120}{180}$ $\frac{18}{24}$ $\frac{24}{36}$

