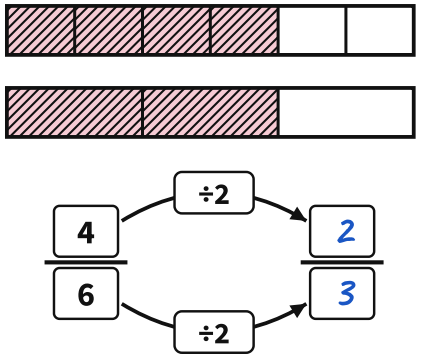
Equivalent fractions and simplifying

ANSWERS

1

The two bars are the same length.

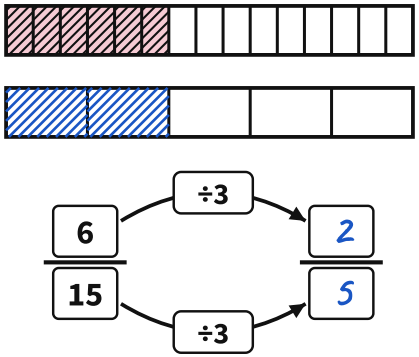
Write $\frac{4}{6}$ in its simplest form.



Answer $\frac{2}{3}$

2

Write $\frac{6}{15}$ in its simplest form.

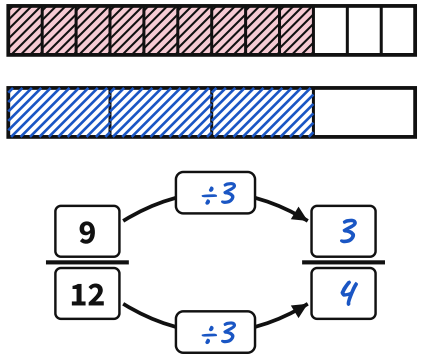


Answer $\frac{2}{5}$

3

Shade the same amount on the bottom bar.

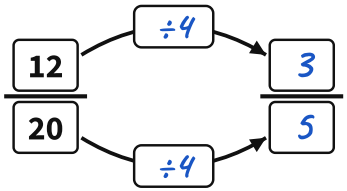
Write $\frac{9}{12}$ in its simplest form.



Answer $\frac{3}{4}$

4

Write $\frac{12}{20}$ in its simplest form.

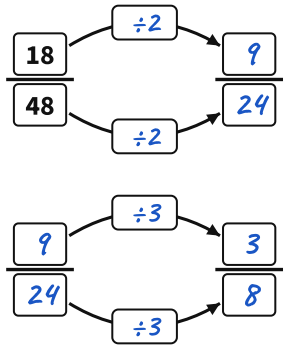


Answer $\frac{3}{5}$

5

Write $\frac{18}{48}$ in its simplest form.

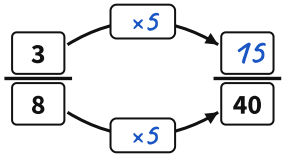
Keep going until the only common factor is 1.



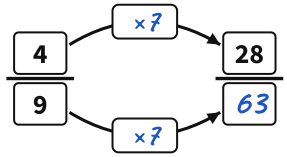
6

Find the missing numbers. Do the same to the top and the bottom.

a)



b)



7

Tia writes $\frac{20}{36} = \frac{10}{18}$ and says it is in its simplest form. Explain why Tia is wrong.

Then write $\frac{20}{36}$ in its simplest form.

10 and 18 are both even, so ÷ 2 again

Answer $\frac{5}{9}$

8

A café sells 60 drinks in a morning. 45 of the drinks are hot and the rest are cold. What fraction of the drinks are cold? Give your answer in its simplest form.

60 − 45 = 15 cold, so $\frac{15}{60}$, ÷ 15

Answer $\frac{1}{4}$

Equivalent fractions and simplifying *further practice*

ANSWERS

9

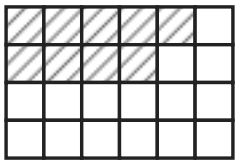
Write $\frac{42}{56}$ in its simplest form.

÷ 2 then ÷ 7, or ÷ 14

Answer $\frac{3}{4}$

10

What fraction of the rectangle is shaded? Give your answer in its simplest form.



$\frac{9}{24}$, ÷ 3

Answer $\frac{3}{8}$

11

Which of these fractions is **not** equivalent to $\frac{3}{5}$?

$\frac{6}{10}$ $\frac{9}{15}$ $\frac{12}{25}$ $\frac{15}{25}$

$\frac{6}{10}$, $\frac{9}{15}$, $\frac{15}{25}$ all simplify to $\frac{3}{5}$

Answer $\frac{12}{25}$

12

Find the missing numbers.

$$\frac{2}{3} = \frac{8}{a} = \frac{b}{30}$$

× 4 top and bottom, then × 10

a = 12

b = 20

13

A jug holds 2 litres of juice. 750 ml of the juice is poured out. What fraction of the juice is poured out?
Give your answer in its simplest form.

2 litres = 2000 ml, so $\frac{750}{2000}$

Answer $\frac{3}{8}$

14

In a survey, 84 of the 120 people asked chose tea as their favourite drink.
What fraction of the people asked chose tea? Give your answer in its simplest form.

$\frac{84}{120}$, ÷ 12

Answer $\frac{7}{10}$

15

Jen scores 18 out of 24 in a test.
Ade scores 21 out of 28 in a different test. Who did better?
Show how you know.

$\frac{18}{24} = \frac{3}{4}$, $\frac{21}{28} = \frac{3}{4}$

Answer The same, both $\frac{3}{4}$

16

Leo says $\frac{5}{8} = \frac{4}{7}$ because he took 1 away from the top and the bottom.
Is Leo right? Explain.

$\frac{5}{8} = \frac{35}{56}$ but $\frac{4}{7} = \frac{32}{56}$

Answer No