

Equivalent fractions (3)

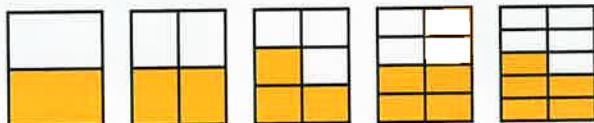
Use factors and multiples to recognise equivalent fractions and simplify fractions



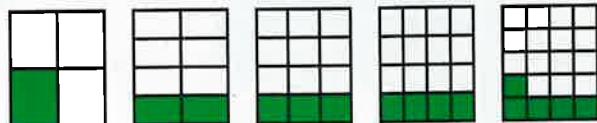
Challenge
1

- 1 Continue the equivalent fraction pattern.

a $\frac{1}{2} = \frac{1}{4} = \frac{1}{6} = \underline{\quad} = \underline{\quad}$



b $\frac{1}{4} = \frac{1}{8} = \frac{1}{12} = \underline{\quad} = \underline{\quad}$



- 2 Explain what an equivalent fraction is.

Challenge
2

- 1 Continue the equivalent fraction pattern.

a $\frac{1}{5} = \frac{1}{10} = \underline{\quad} = \underline{\quad} = \underline{\quad} = \underline{\quad}$

b $\frac{1}{6} = \frac{1}{12} = \underline{\quad} = \underline{\quad} = \underline{\quad} = \underline{\quad}$

c $\frac{1}{7} = \frac{1}{14} = \underline{\quad} = \underline{\quad} = \underline{\quad} = \underline{\quad}$

d $\frac{1}{8} = \frac{1}{16} = \underline{\quad} = \underline{\quad} = \underline{\quad} = \underline{\quad}$

- 2 Simplify these fractions.

a $\frac{9}{18}$

b $\frac{6}{24}$

c $\frac{7}{28}$

d $\frac{8}{40}$

e $\frac{9}{54}$

f $\frac{6}{18}$

g $\frac{8}{56}$

h $\frac{6}{60}$

i $\frac{4}{48}$

j $\frac{9}{45}$

k $\frac{7}{77}$

l $\frac{20}{70}$

Challenge
3

- 1 Continue the equivalent fraction pattern for these non-unit fractions.

a $\frac{2}{3} = \frac{2}{6} = \frac{2}{9} = \frac{2}{12} = \frac{2}{15} = \frac{2}{18}$

b $\frac{3}{5} = \frac{6}{\underline{\quad}} = \underline{\quad} = \underline{\quad} = \underline{\quad} = \underline{\quad}$

- 2 Simplify these fractions.

a $\frac{12}{60}$

b $\frac{10}{18}$

c $\frac{15}{25}$

d $\frac{36}{42}$

e $\frac{20}{50}$

f $\frac{32}{36}$

g $\frac{54}{90}$

h $\frac{44}{99}$

i $\frac{12}{21}$

j $\frac{14}{35}$

- 3 Explain why $\frac{12}{25}$ cannot be simplified?

