

Week 4: Fractions

What does it mean?

When we simplify a fraction, we make it as simple as possible.

We do this by dividing both the denominator and numerator by the highest number that both will divide into exactly.

For example:

$$\frac{4}{8} \rightarrow \frac{2}{4} \rightarrow \frac{1}{2}$$

$\div 2 \quad \div 2$

$$\frac{12}{27} \rightarrow \frac{4}{9}$$

$\div 3$



Need more guidance? <https://corbettmaths.com/2013/03/03/simplifying-fractions-2/>

Task



Simplify the following fractions.
The first one has been done for you.

a) $\frac{20}{50} \rightarrow \frac{2}{5}$

b) $\frac{15}{40} \rightarrow \frac{3}{8}$

c) $\frac{63}{81} \rightarrow \frac{7}{9}$

d) $\frac{160}{200} \rightarrow \frac{4}{5}$

e) $\frac{35}{49} \rightarrow \frac{5}{7}$

f) $\frac{60}{100} \rightarrow \frac{3}{5}$

g) $\frac{16}{18} \rightarrow \frac{8}{9}$

h) $\frac{2}{8} \rightarrow \frac{1}{4}$

i) $\frac{21}{70} \rightarrow \frac{3}{10}$

j) $\frac{45}{80} \rightarrow \frac{9}{16}$

k) $\frac{2}{64} \rightarrow \frac{1}{32}$

l) $\frac{14}{50} \rightarrow \frac{7}{25}$

m) $\frac{18}{81} \rightarrow \frac{2}{9}$

n) $\frac{23}{100} \rightarrow \frac{23}{100}$

o) $\frac{33}{88} \rightarrow \frac{3}{8}$

p) $\frac{3}{60} \rightarrow \frac{1}{20}$

Problem Solving

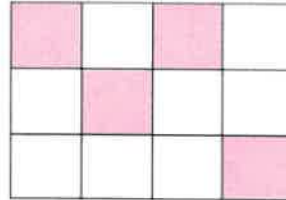
Question 1: Which fractions below are equivalent to $\frac{2}{3}$?

$\frac{4}{6}$ $\frac{6}{8}$ $\frac{8}{12}$ $\frac{9}{12}$ $\frac{10}{15}$

Question 2: James says that $\frac{1}{3}$ of the grid is shaded

Cara says $\frac{4}{12}$ of the grid is shaded.

Explain how they are both correct.



$\frac{4}{12}$ simplifies to $\frac{1}{3}$

Question 3: Given that $5 \times 13 = 65$ and $7 \times 13 = 91$ simplify fully $\frac{65}{91} \div 13 = \frac{5}{7}$

Question 4: Freddy has 40 cupcakes.
20 of the cupcakes are chocolate.
10 of the cupcakes are lemon.
8 of the cupcakes are strawberry.
The rest of the cupcakes are vanilla.

(a) What fraction of the cupcakes are chocolate? $\frac{1}{2}$



(b) What fraction of the cupcakes are lemon? $\frac{1}{4}$

(c) What fraction of the cupcakes are strawberry? $\frac{1}{5}$

Weekly Challenge

Here is a 3 x 3 grid with some shapes in.

			108
			102
			95

Each shape represents a number.

The sum of each row is shown at the right of the table.

Find the value of each of the shapes.

Now complete the online quiz:

<https://forms.office.com/r/6qb03V3vXf>

Put your answers here

