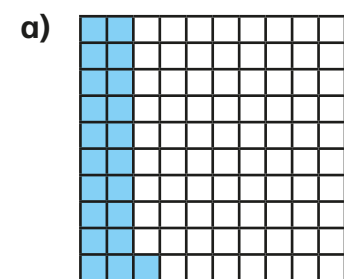


# Convert fluently between simple fractions, decimals and percentages

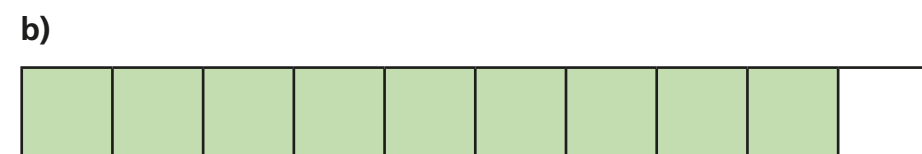
1 What fraction, decimal and percentage of each diagram are shaded?



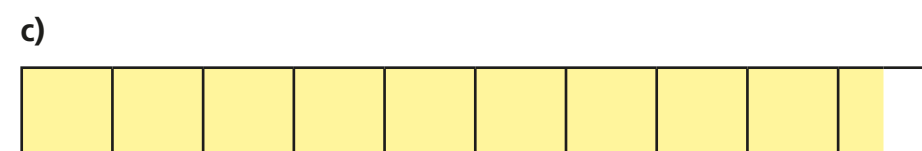
fraction =  $\frac{21}{100}$

decimal = 0.21

percentage = 21 %



fraction =  $\frac{9}{10}$       decimal = 0.9      percentage = 90 %



fraction =  $\frac{95}{100}$       decimal = 0.95      percentage = 95 %

2 What fraction, decimal and percentage of the bar model is shaded?



fraction =  $\frac{4}{5}$       decimal = 0.8      percentage = 80 %

3 a) Sort the statements into those that are correct and those that are incorrect.

0.09 is the same as  $\frac{9}{10}$

25% is equivalent to  $\frac{1}{4}$

$\frac{7}{100}$  is equal to 0.07

50% is the same as 0.05

$\frac{3}{10}$  is equivalent to 30%

0.4 is the same as  $\frac{1}{4}$

Correct statements	Incorrect statements
$\frac{7}{100}$ is equal to 0.07 $\frac{3}{10}$ is equivalent to 30% 25% is equivalent to $\frac{1}{4}$	0.09 is the same as $\frac{9}{10}$ 50% is the same as 0.05 0.4 is the same as $\frac{1}{4}$

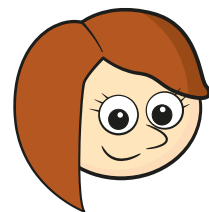
b) For the ones that are incorrect, change the statement to make it correct.

E.g. 0.09 is the same as  $\frac{9}{100}$

50% is the same as 0.5

0.4 is the same as  $\frac{2}{5}$

4



$\frac{4}{5}$  is the same as 45%.

Is Rosie correct? NO

Explain your reasoning.

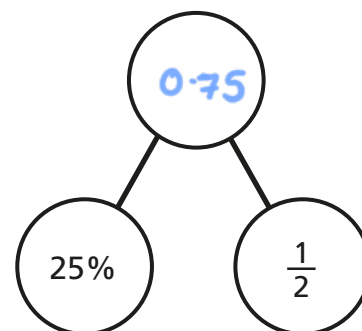
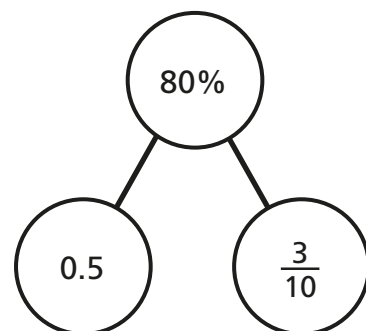
$$\frac{4}{5} = \frac{8}{10} = \frac{80}{100} = 80\%$$

5

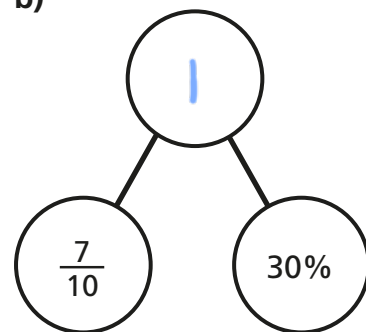
Complete the missing values.

Give your answers as decimals. One has been done for you.

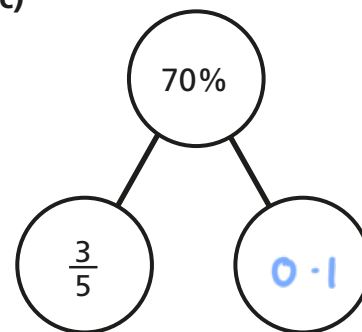
a)



b)



c)



6

Complete the statements with possible decimal answers.

E.g.

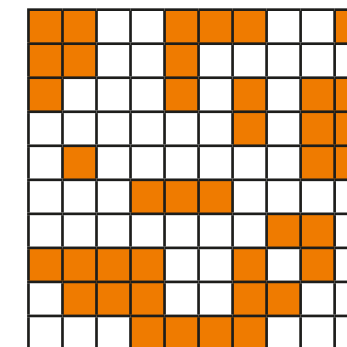
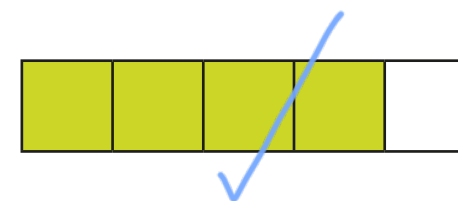
a)  $\frac{1}{5} < \boxed{0.3} < \boxed{0.5} < 60\%$

b)  $5\% < \boxed{0.07} < \frac{1}{10} < \boxed{0.4}$

c)  $\frac{3}{100} < \boxed{0.21} < 30\% < \boxed{0.99}$

7

Tick the odd one out.



0.4

two-fifths

How did you work this out?

All the others are equivalent to 0.4

Create your own problem like this for a partner.