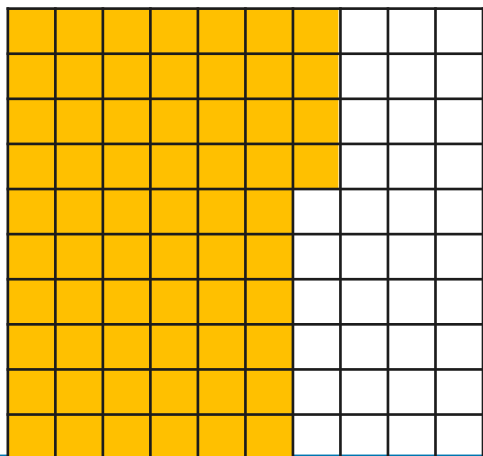


WALT: write percentages as fractions and decimals.

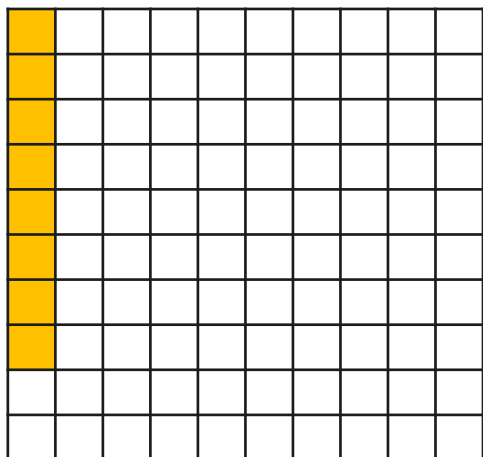
WILF:

- Recognise percentage as parts per 100.
- Explain what the relationship between percentages, fractions and decimals is.
- Convert percentages into fractions using denominators of 10 and 100.
- Convert percentages into decimals with tenths and hundredths.

Percentage means the parts per 100, so can be converted into fractions and decimals. You can see on the square below, that 64 squares out of 100 are coloured in. Therefore, it is 64% or 64/100, or 0.64 of the square filled.



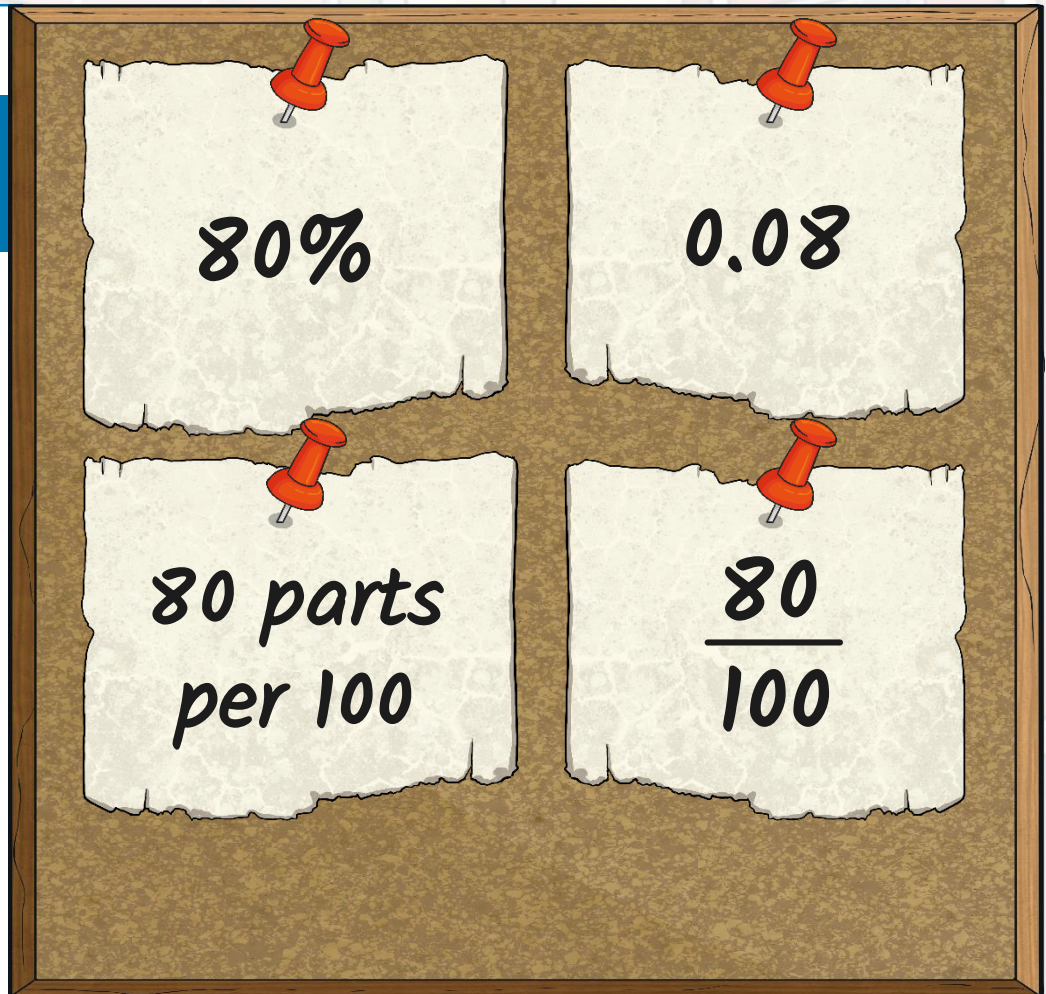
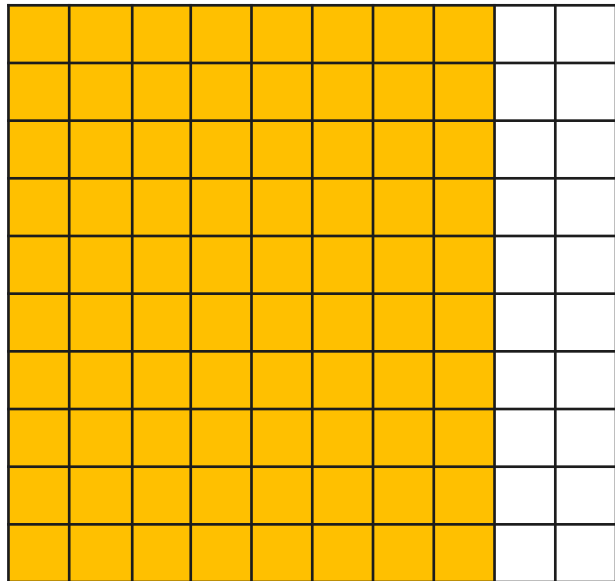
$$= \boxed{64} \text{ parts per 100} = \boxed{64\%} = \frac{\boxed{64}}{\boxed{100}} = 0.64$$



If 8 out of 100 squares are filled in, this happens:

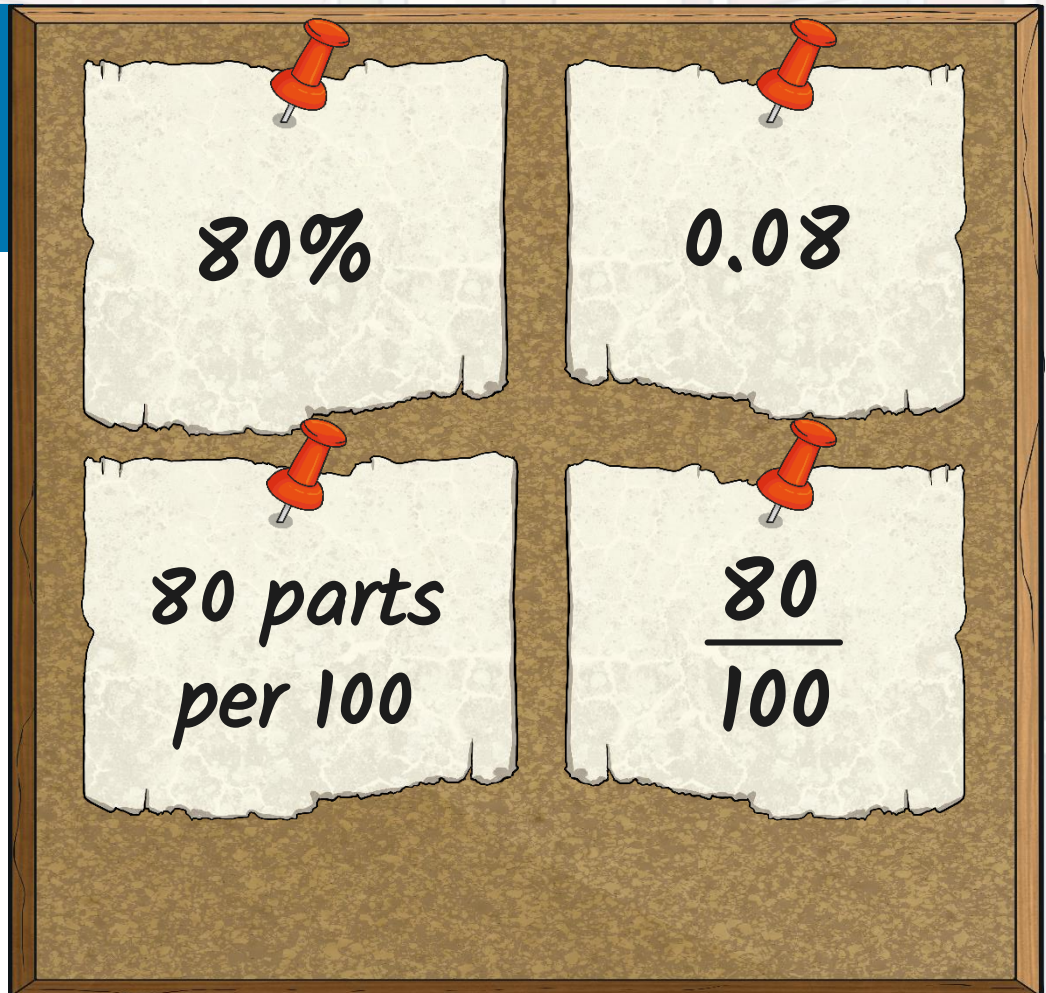
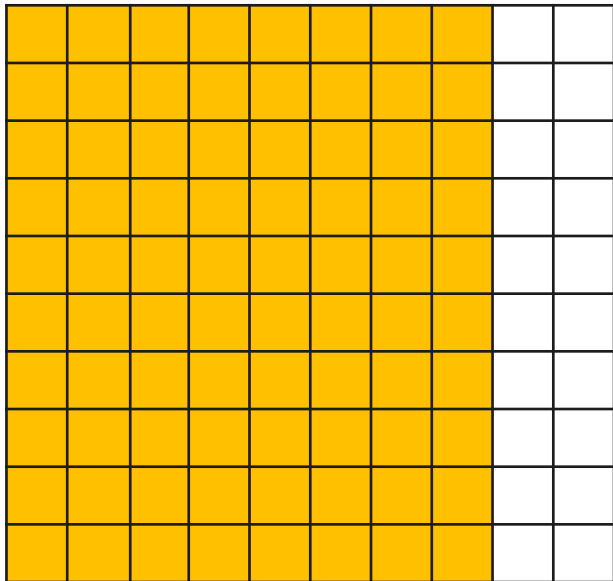
$$= \boxed{8} \text{ parts per 100} = \boxed{8\%} = \frac{\boxed{8}}{\boxed{100}} = \boxed{0.08}$$

Using your knowledge of this, and the decimals and fractions – which is the odd one out here? Why?



Using your knowledge of this, and the decimals and fractions – which is the odd one out here? Why?

0.08 is the odd one out – if it was 0.80, only 8 squares would be yellow – $\frac{8}{100}$ or 8%



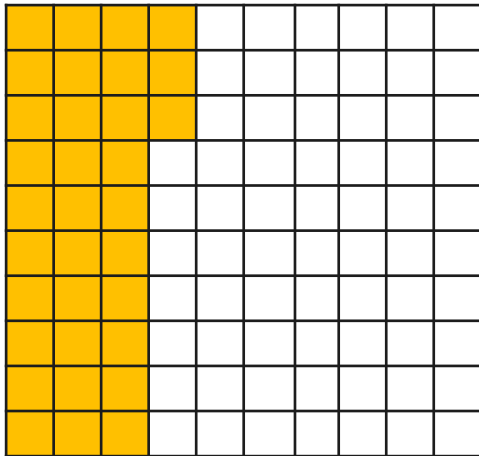
Try this...

True or false?

$$\frac{42}{100} < 0.8 > 14\%$$

$$30 \text{ parts per hundred} > 4\% > 0.3$$

$$18\% <$$



$$< 0.5$$

True or false?

$$\frac{42}{100} < 0.8 > 14\%$$

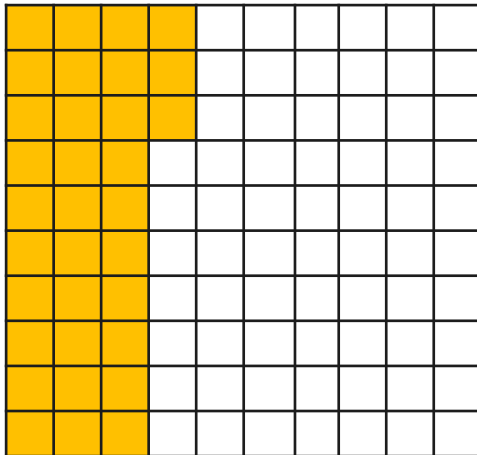
True.

$$30 \text{ parts per hundred} > 4\% > 0.3$$

False.

4% = 0.04 which is not greater than 0.3 so this is false.

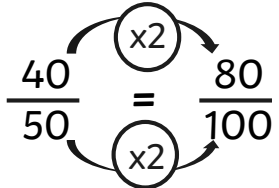
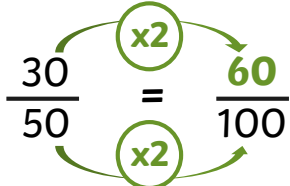
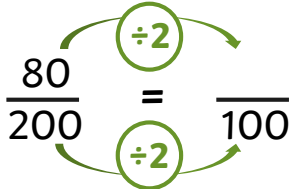
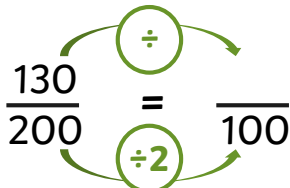
$$18\% <$$



$$< 0.5$$

True. (Hint: count the squares out of 100 that are coloured in)

Which numbers fill the table to make it correct? The first one has been done for you to show you how.

Fraction	Fraction with a Denominator of 100	Percentage	Decimal
$\frac{40}{50}$	 $= \frac{80}{100}$	80 %	0.8 or 0.80
$\frac{30}{50}$	 $= \frac{60}{100}$	%	
$\frac{80}{200}$	 $= \frac{40}{100}$	%	0.4 or 0.40
$\frac{130}{200}$	 $= \frac{65}{100}$	%	



Three children are describing a different percentage. Remember to think about percentages as parts per 100.

Give two possible percentages that each child could be describing.



The fraction equivalent to my percentage is between $\frac{20}{100}$ and $\frac{20}{50}$.

Sammy



As a decimal, my percentage is between 0.15 and 0.2.

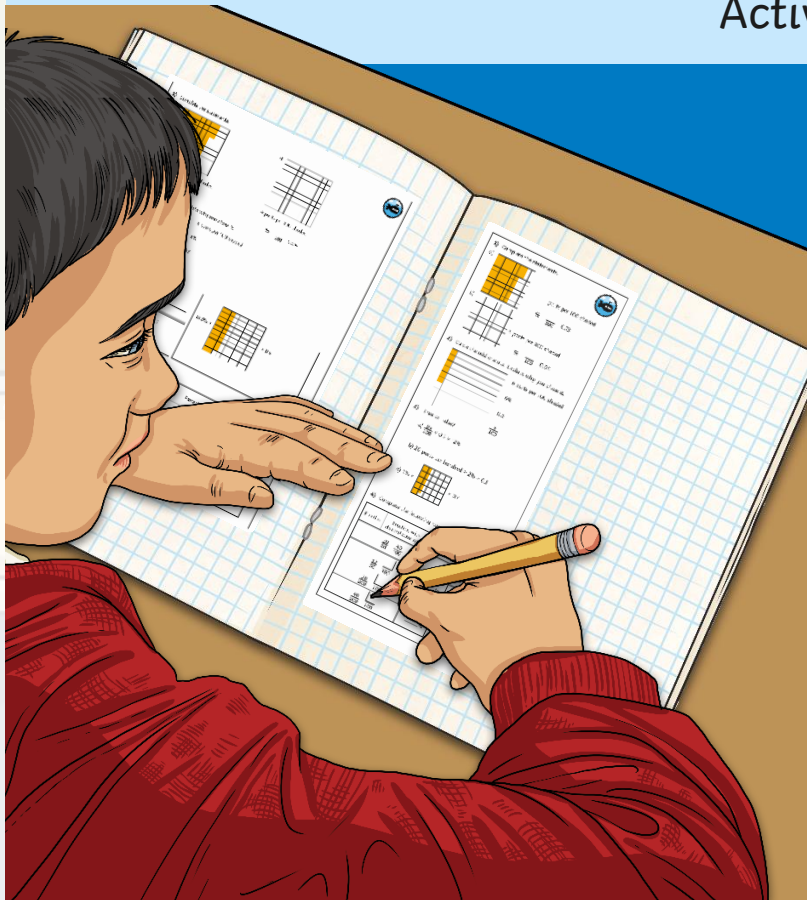
Ethan



My percentage is between 0.13 and $\frac{70}{100}$.

Nadia

Have a go at completing today's activity: Week 3. Maths. Wednesday Activity.



1)  Give two

 Give one

a) Give one

Samin

Emily

Harry

b) Which as a d

2) If you co

box below

combine

a) Make

A valu

b) Marie

1) Three chi

Give two

 Give one

 Give one

 Give one

2) Ju has w

Look care

a) 20 par

b) 10%

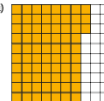
c) $\frac{80}{200} =$

3) Read each

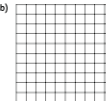


b) Marie

1) Complete the statements.

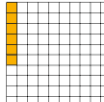
a)  parts per 100 shaded

$\frac{\quad}{100} = 0.73$

b)  4 parts per 100 shaded

$\frac{\quad}{100} =$

2) Circle the odd one out. Explain why you chose it.

 6 parts per 100 shaded

6%

0.6

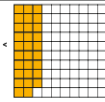
$\frac{6}{100}$

3) True or False?

a) $\frac{85}{100} < 0.9 > 12\%$

b) 20 parts per hundred $> 2\% > 0.1$

c) $5\% < \frac{\quad}{100} < 0.4$



4) Complete the following number statements.

Fraction	Fraction with a Denominator of 100	Percentage	Decimal
$\frac{20}{50} =$	$\frac{40}{100}$	$\frac{\quad}{100} =$	
$\frac{12}{50} =$	$\frac{\quad}{100}$	$\frac{\quad}{100} =$	
$\frac{20}{200} =$	$\frac{\quad}{100}$	$\frac{\quad}{100} =$	
$\frac{90}{200} =$	$\frac{\quad}{100}$	$\frac{\quad}{100} =$	