



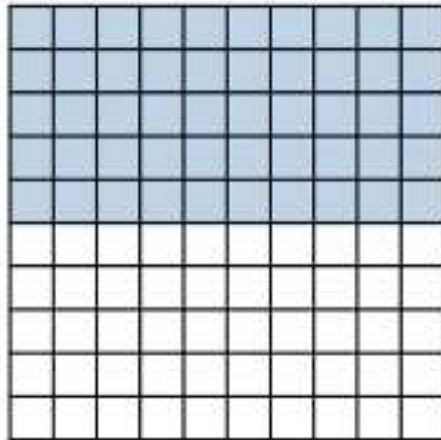
Summer week 2 Lesson 4 – 30.04.20

LO: understanding percentages as fractions and decimals.

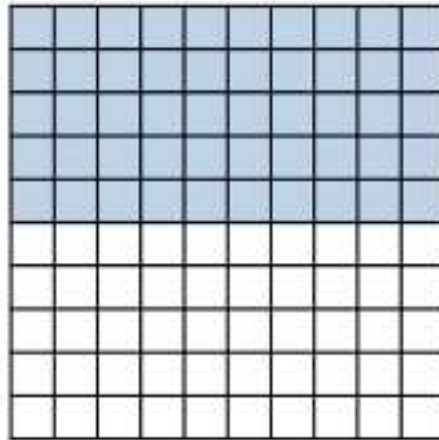
Success Criteria:

- | |
|--|
| 1. Look at the hundred square – how many are shaded? Write this as a fraction with the denominator 100. |
| 2. Convert the fraction into 10 th 's by dividing the numerator and denominator by 10 – write as a decimal. |
| 3. Now convert this to a percentage. |

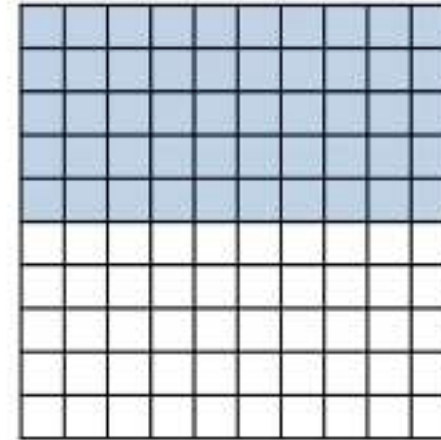
Model



Which is $\frac{50}{100}$ as a fraction.

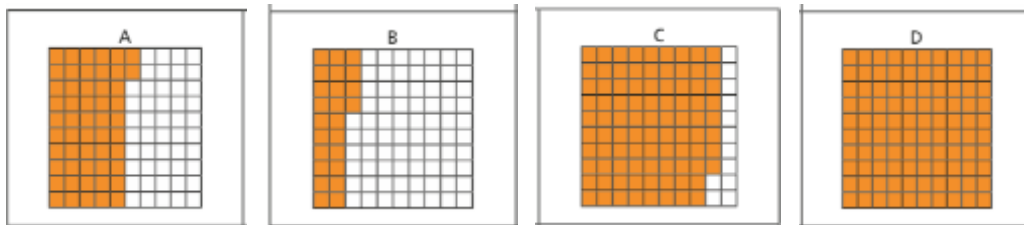


$\frac{50}{100} = \frac{5}{10}$ or 0.5 as a decimal.



Percent means 'out of a hundred' so 50 out of 100 is 50%.

Now complete this table:



Complete the table.

Hundred square	Percentage	Fraction	Decimal
A	52%	$\frac{52}{100}$	0.52
B	24%	$\frac{24}{100}$	0.24
C	88%	$\frac{88}{100}$	0.88
D	100%	$\frac{100}{100}$	1

Year 5 Maths

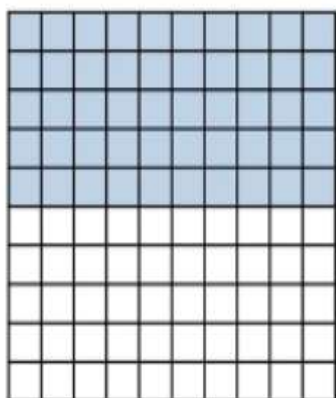
Summer week 2 Lesson 4 – 30.04.20

LO: understanding percentages

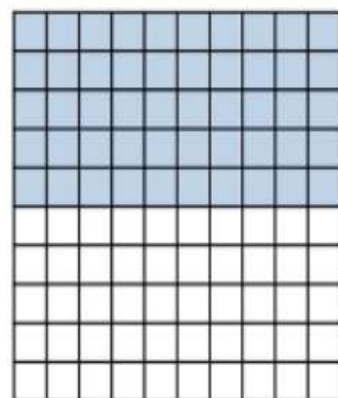
Success Criteria:

1. Look at the hundred square – how many are shaded? Write this as a fraction with the denominator 100.
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3. Now convert this to a percentage.

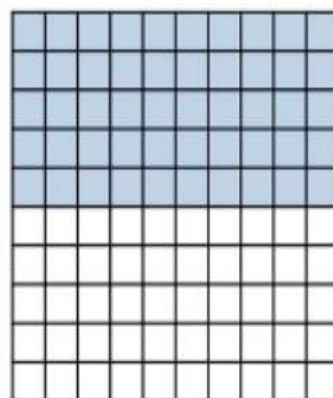
Model:



Which is $\frac{50}{100}$ as a fraction.

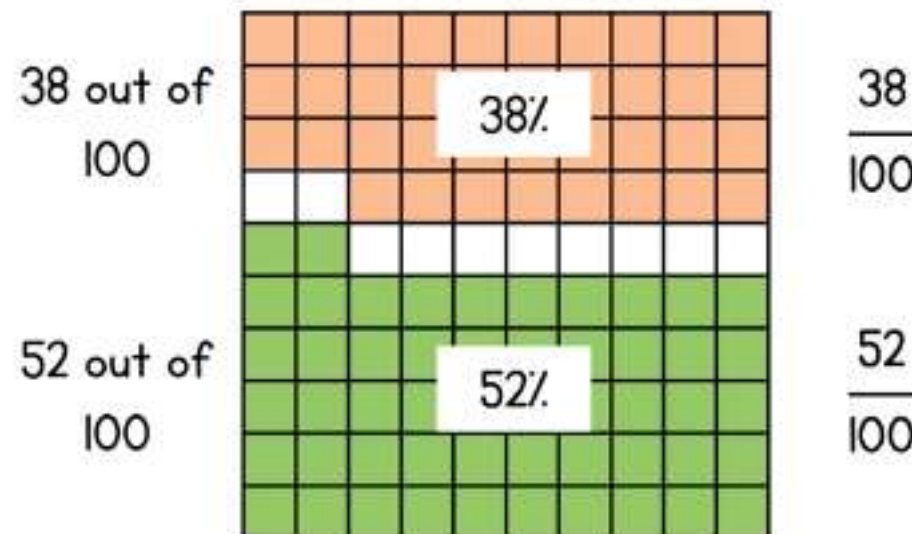


$\frac{50}{100} = \frac{5}{10}$ or 0.5 as a decimal.



Percent means 'out of a hundred' s
out of 100 is 50%.

Which is greater 38% or $\frac{52}{100}$?



$38\% < \frac{52}{100}$

Task 1

Practice

Complete the fraction, decimal and percentage equivalents.

a) $32\% = \frac{32}{100} = 0.32$

c) $0.29 = \frac{29}{100} = 29\%$

$35\% = \frac{35}{100} = 0.35$

$0.71 = \frac{71}{100} = 71\%$

$48\% = \frac{48}{100} = 0.48$

$0.03 = \frac{3}{100} = 3\%$

b) $\frac{17}{100} = 17\% = 0.17$

$\frac{9}{100} = 9\% = 0.09$

$\frac{90}{100} = 90\% = 0.9$

Circle all the fractions that are greater than or equal to 50%.

$\frac{10}{50}$

$\frac{4}{5}$

$\frac{50}{100}$

$\frac{30}{80}$

$\frac{1}{50}$

$\frac{70}{140}$

Task 2

Now try these:

Write <, > or = to complete the statements.

a) $50\% > \frac{5}{100}$

d) $\frac{40}{100} = 40\%$

b) $25\% < \frac{50}{100}$

e) $\frac{70}{100} > 7\%$

c) $14\% < \frac{41}{100}$

f) $82\% = \frac{82}{100}$

Oh no! Dexter has spilt ink on his hundred square.



Complete the sentence stems to describe what percentage is shade

It could be...

It must be...

It can't be...

Some possible answers:

It could be 25%

It must be less than 70%

It can't be 100%

Task 3

Have a go at these problems

Jack and Dora go shopping with the same amount of money.

Jack spends $\frac{1}{3}$ of his money.

Dora spends 30% of her money.

a) Who spends more money? Jack

Use fraction and percentage equivalence to explain your answer.

$\frac{1}{3} = \frac{10}{30}$
 $30\% = \frac{3}{10} = \frac{9}{30}$

Mo, Annie and Tommy all did a test with 100 questions. Tommy got 6 fewer questions correct than Mo.

Name	Score	Percentage
Mo	56 out of 100	56%
Annie	65 out of 100	65%
Tommy	50 out of 100	50%

Complete the table.

How many more marks did each child need to score 100%?

Mo needs 44
Annie needs 35
Tommy needs 50

