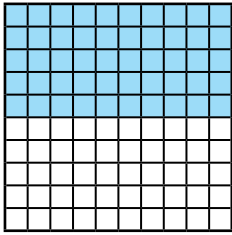


- 1) Complete the statements about the hundred squares.



_____ out of 100 small squares are shaded.

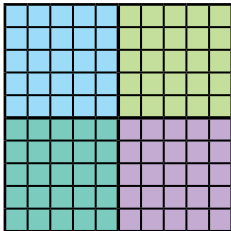
_____ out of 100 small squares are not shaded.

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

$\frac{\quad}{100}$ = not shaded

Half of the small squares are shaded, half of the small squares are not shaded. $\frac{1}{2} = \frac{50}{100} = \frac{5}{10}$ so we write $\frac{1}{2}$ as _____ as a decimal.

- 2) a) This hundred square has been divided into four equal groups.



There are 4 equal groups.

1 out of 4 equal groups = _____ small squares.

1 out of 4 equal groups = $\frac{\quad}{100}$

$\frac{1}{4} = \frac{\quad}{100} = 0.\text{_____}$

- b) Use the hundred square above to complete the following statements for three out of the four equal groups.

3 out of 4 equal groups = _____ small squares.

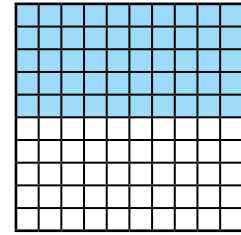
3 out of 4 equal groups = $\frac{\quad}{100}$

$\frac{3}{4} = \frac{\quad}{100} = 0.\text{_____}$

- 3) Match each fraction and decimal to the corresponding image.

0.75		$\frac{1}{4}$
0.5		$\frac{3}{4}$
0.25		$\frac{1}{2}$

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_____ out of 100 small squares are shaded.

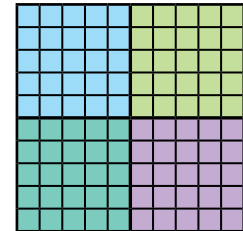
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0.5		$\frac{3}{4}$
0.25		$\frac{1}{2}$

- 1) Do you agree with Sunny or Leah?
Explain how you know.



My bag has a mass of 0.5kg. I have the bag with the greater mass.



My bag has a mass of $\frac{3}{4}$ kg. I have the bag with the greater mass.

2)



The only fraction which can be written as 0.5 is $\frac{1}{2}$.

Mo isn't correct. Explain how you know he is incorrect. In your answer, give three other fractions which would be written as 0.5 as a decimal.

- 3) Complete the table by sorting these decimals and fractions into equivalent groups. The first one is done for you. There will be more than one answer in some of the boxes.

$\frac{10}{40}$	0.75	$\frac{6}{8}$	$\frac{9}{12}$
$\frac{15}{20}$	$\frac{9}{18}$	$\frac{25}{100}$	$\frac{75}{100}$
$\frac{8}{16}$	0.25	$\frac{4}{16}$	$\frac{50}{100}$

	Decimal	Equivalent Fraction
One-quarter		$\frac{10}{40}$
A half	0.5	
Three-quarters		

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One-quarter		$\frac{10}{40}$
A half	0.5	
Three-quarters		

- 1) Any fraction equivalent to 0.5 will **not** have a denominator that is an odd number.



Is this statement true or false?

Explain why you think this and give examples to support your reasoning.

- 2) a) Five friends are comparing the mass of their kittens.



My kitten weighs $\frac{25}{100}$ of 5kg.

My kitten weighs $\frac{8}{16}$ of 5kg.



My kitten weighs 0.75 of 5kg.

My kitten weighs 0.75 of 5kg.



My kitten weighs $\frac{4}{16}$ of 5kg.



My kitten weighs $\frac{25}{100}$ of 5kg.

My kitten weighs $\frac{8}{16}$ of 5kg.



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My kitten weighs $\frac{4}{16}$ of 5kg.



Order the mass of each child's kitten, from least to greatest. Show how you worked out the answer.

- b) Write your own word problem and answer using half, 0.25 and 0.75 of amounts.

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