Fractions, decimals and percentages

B

Name _____

1 Circle the fractions which are equivalent to 0.5

$\frac{1}{5}$ $\frac{5}{10}$ $\frac{1}{50}$ $\frac{1}{2}$

1 mark

2 Convert the fractions to decimals.

$\frac{22}{50} = \frac{44}{100} =$ 0.44

1 mark

$\frac{125}{500}$ 0.25

1 mark

$\frac{5}{25}$ 0.20

1 mark

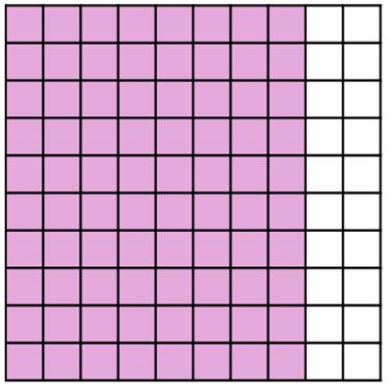
3 Match the decimals to their equivalent fraction.

0.75	$\frac{1}{2}$
0.6	$\frac{3}{5}$
0.5	$\frac{3}{4}$

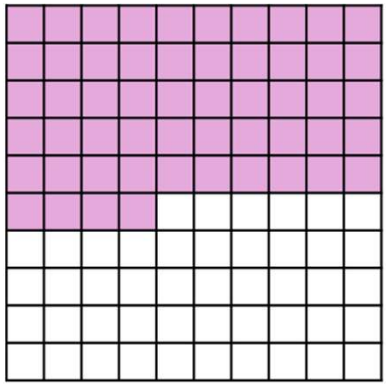
1 mark for 1 matched correctly.

2 marks

4 Here are some hundred squares.
What percentage of each 100 square is shaded?



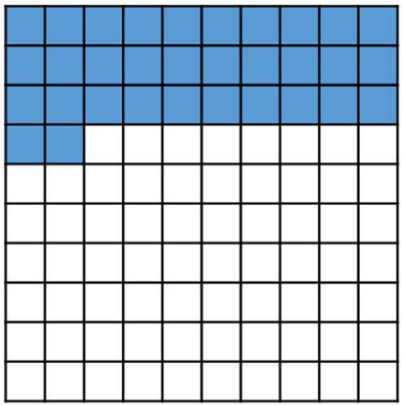
80 %



54 %

2 marks

Shade 32% of the hundred square.



1 mark for any 32 squares shaded.

1 mark

What fraction of the hundred square is shaded?

$\frac{32}{100}$

1 mark

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5 Alex says that $\frac{18}{80}$ is less than 0.25

Is Alex correct? (Yes) No

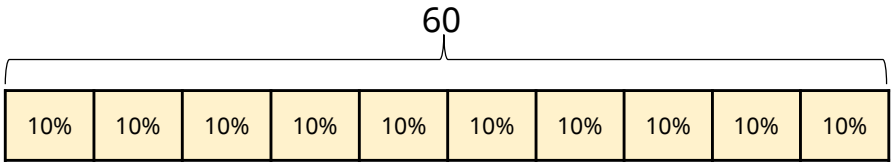
Explain why.

0.25 of 80 is 20 which is equivalent to $\frac{20}{80}$

therefore $\frac{18}{80}$ is less than 0.25

1 mark

6 Use the bar model to help you calculate.



10% of 60 6 30% of 60 18

1 mark

90% of 60 54 5% of 60 3

1 mark

7 50% of a number is 44
What is the number?

88

1 mark

10% of a number is 57
What is the number?

570

1 mark

8 Complete the table.

Percentage	Fraction	Decimal
25%	$\frac{1}{4}$	0.25
3%	$\frac{3}{100}$	0.03
50%	$\frac{1}{2}$	0.5
99%	$\frac{99}{100}$	0.99

3 marks

9 Sam has a large bag of apples.
There are 220 apples in the bag.

She uses $\frac{1}{5}$ of the apples to make some juice.

She uses 25% of the apples to make some pies.

How many apples are left?
2 marks for the correct answer.
1 mark for calculating 220 ÷ 5 = 44 and 220 ÷ 4 = 55

121

2 marks

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