

**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.

$\frac{22}{50} = \frac{\square}{100} =$  \_\_\_\_\_

1 mark

$\frac{125}{500}$  \_\_\_\_\_

1 mark

$\frac{5}{25}$  \_\_\_\_\_

1 mark

3 Match the decimals to their equivalent fraction.

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

2 marks

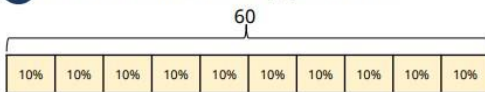
5 Alex says that  $\frac{18}{80}$  is less than 0.25

Is Alex correct?                      Yes    No

Explain why.

1 mark

6 Use the bar model to help you calculate.



10% of 60 \_\_\_\_\_ 30% of 60 \_\_\_\_\_

1 mark

90% of 60 \_\_\_\_\_ 5% of 60 \_\_\_\_\_

1 mark

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

\_\_\_\_\_

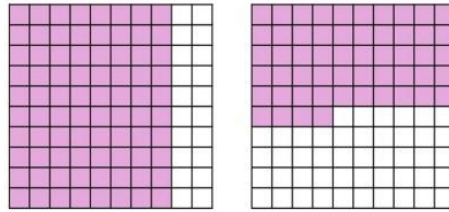
1 mark

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

\_\_\_\_\_

1 mark

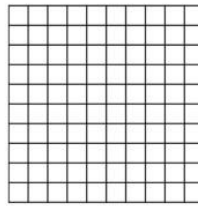
4 Here are some hundred squares.  
What percentage of each 100 square is shaded?



\_\_\_\_\_ %                      \_\_\_\_\_ %

2 marks

Shade 32% of the hundred square.



What fraction of the hundred square is shaded?

\_\_\_\_\_

1 mark

1 mark

White Rose

8 Complete the table.

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

White Rose

## Fractions to Percentages

1. Tick the fractions that are equal to 30%.

$\frac{30}{10}$	$\frac{30}{100}$	$\frac{3}{100}$	$\frac{1}{10}$	$\frac{3}{10}$	$\frac{33}{100}$
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



VF  
HW/Ext

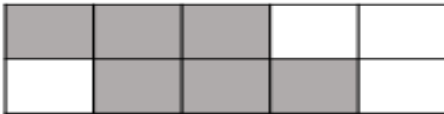
2. Convert each fraction to a percentage.

$\frac{8}{10}$	$\frac{50}{100}$	$\frac{2}{10}$	$\frac{75}{100}$	$\frac{1}{10}$	$\frac{48}{100}$
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
%	%	%	%	%	%



VF  
HW/Ext

3. Jerry says,



I think that 6% of the rectangle is shaded because 6 squares are shaded.



Explain his mistake.



RPS  
HW/Ext

## Fractions to Percentages

4. Tick the fractions that are equal to 40%.

$\frac{9}{20}$	$\frac{2}{5}$	$\frac{15}{50}$	$\frac{10}{25}$	$\frac{4}{10}$	$\frac{2}{4}$
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



VF  
HW/Ext

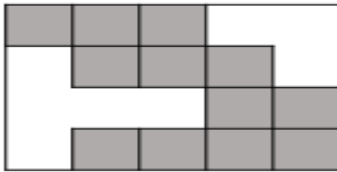
5. Convert each fraction to a percentage.

$\frac{8}{25}$	$\frac{4}{5}$	$\frac{36}{50}$	$\frac{9}{20}$	$\frac{2}{10}$	$\frac{1}{4}$
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>



VF  
HW/Ext

6. Jade says,



I think that 70% of the rectangle is shaded because  $\frac{12}{20}$  converted to a percentage is 70%.



Explain her mistake.



RPS  
HW/Ext

## Fractions to Percentages

7. Tick the fractions that are equal to 60%.

$\frac{27}{45}$	$\frac{27}{36}$	$\frac{39}{65}$	$\frac{45}{60}$	$\frac{48}{80}$	$\frac{25}{40}$
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



VF  
HW/Est

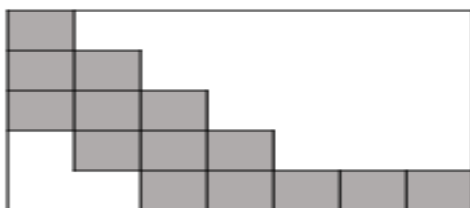
8. Convert each fraction to a percentage.

$\frac{13}{52}$	$\frac{18}{36}$	$\frac{22}{40}$	$\frac{28}{32}$	$\frac{35}{56}$	$\frac{18}{30}$
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>



VF  
HW/Est

9. Joe says,



For 80% of the shape to be shaded, I need to colour in 10 more squares.



Explain his mistake.



RPS  
HW/Est