

Fractions, decimals  
and percentages

Name: \_\_\_\_\_

- 1 Circle the fractions that are equivalent to 0.2

$\frac{1}{20}$      $\frac{1}{2}$      $\frac{2}{10}$      $\frac{1}{5}$

1 mark

- 2 Convert the fractions to decimals.

$$\frac{31}{50} = \frac{\square}{100} = \square$$

1 mark

$$\frac{12}{25} = \square$$

1 mark

$$\frac{65}{500} = \square$$

1 mark

- 3 Match the decimals to the equivalent fractions.

0.25

 $\frac{3}{6}$ 

0.4

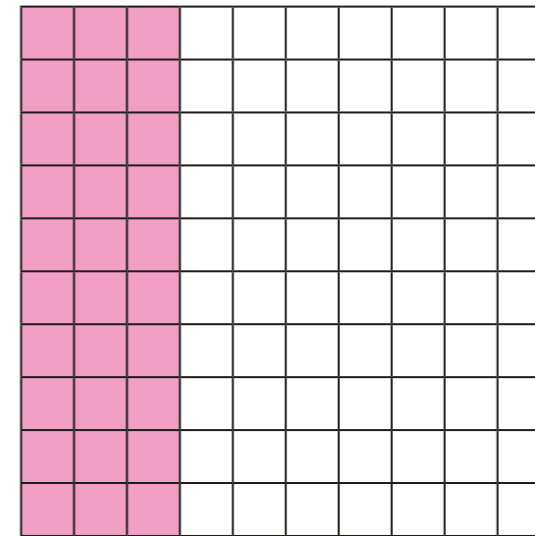
 $\frac{1}{4}$ 

0.5

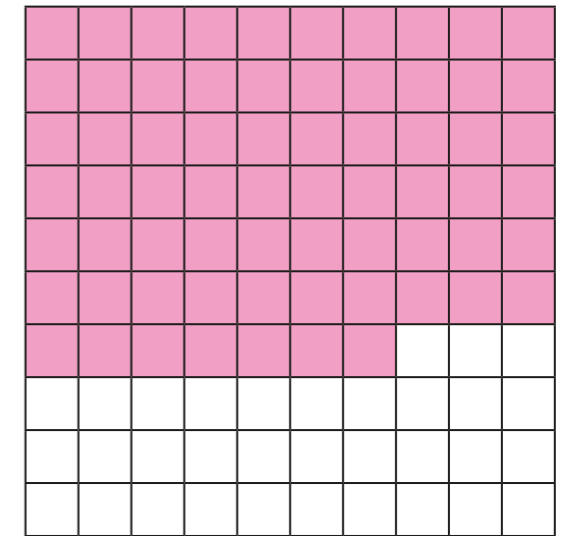
 $\frac{2}{5}$ 

1 mark

- 4 What percentage of each hundred square is shaded?

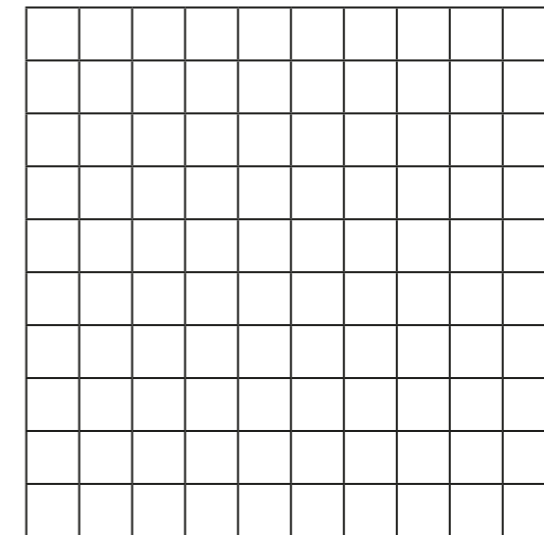
 %

1 mark

 %

2 marks

Shade 21% of the hundred square.

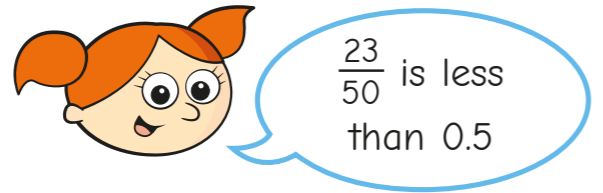


What fraction of the hundred square is shaded?

1 mark

1 mark

5

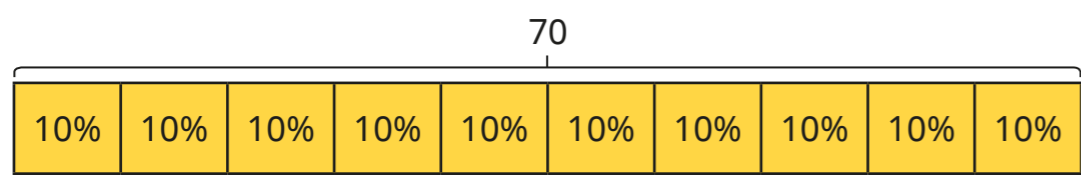


Is Alex correct? \_\_\_\_\_  
 Explain your answer.

1 mark

6

Work out the percentages of the amounts.  
 Use the bar model to help you.



10% of 70 =       30% of 70 =   
 90% of 70 =       5% of 70 =

2 marks  
  
2 marks

7

50% of a number is 32  
 What is the number?

1 mark

10% of a number is 75  
 What is the number?

1 mark

8

Complete the table.

| Percentage | Fraction        | Decimal |
|------------|-----------------|---------|
| 50%        | $\frac{1}{2}$   | 0.5     |
| 7%         | $\frac{7}{100}$ |         |
|            | $\frac{1}{5}$   | 0.2     |

2 marks

9

A farmer has a large bag of apples.  
 There are 180 apples in the bag.  
 She uses  $\frac{1}{4}$  of the apples to make some juice.  
 She uses 20% of the apples to make some pies.  
 How many apples are left?

2 marks