Year 5

Decimals and Percentages

Name _____

1 Max has made a number on a place value grid.

Ones	Tenths	Hundredths
	0.1 0.1 0.1	0.01 0.01 0.01 0.01 0.01

Write Max's number as a decimal.

0.35

1 mark

Write Max's number as a fraction.

$\dfrac{35}{100}$

1 mark

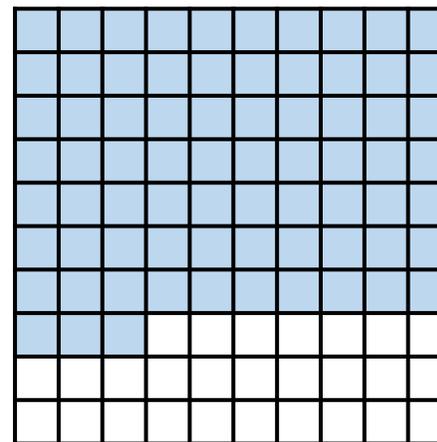What is Max's number rounded to the nearest tenth?

0.4

1 mark

2 Match the decimal with the correct value of the underlined digit.

0.5<u>3</u>   3 ones

0.<u>3</u>5   3 hundredths

<u>3</u>5   3 tenths

5<u>3</u>.6   3 tens

Allow one mark for 2 answers correctly matched.

2 marks for all four answers correctly matched.

2 marks

3 Here is a hundred square.

What percentage of the square is shaded?

73%

1 mark

What fraction of the square is shaded?

$\dfrac{73}{100}$

1 mark

4 Complete the fractions.

$$\frac{43}{100} = \frac{4}{10} + \frac{\boxed{3}}{100}$$

$$\frac{79}{100} = \frac{\boxed{7}}{10} + \frac{9}{\boxed{100}}$$

3 marks

5 There are 1,000 people at a concert.
481 of the people are men.
What fraction of the people are men?

$$\frac{481}{1000}$$

1 mark

Write the fraction of men as a decimal.

0.481

1 mark

6 4 children are measuring their height.

Emily – 1.43 metres
Junaid – 1.47 metres
Lucas – 1.4 metres
Sita – 1.39 metres

Order the children from tallest to shortest.

Junaid   Emily   Lucas   Sita

2 marks

Sami is taller than Lucas but Shorter than Emily.
How tall could Sami be?

1.42 or 1.41 metres

1 mark

7 Maryam is running a 1 kilometre race.
She has ran $\frac{345}{1000}$ of the race so far.
How many metres has Maryam run?

345   metres

1 mark

What fraction of the race does she have left to run?

$$\frac{655}{1000}$$

1 mark

8 Ben has £200
He spends £65 on a coat and £35 on some trainers.
What fraction of his money has Ben spent?

1 mark for $\frac{100}{200}$ $\frac{1}{2}$

2 marks

Ben spends 24% of his remaining money on a computer game.
How much money does Ben have left?

£ 76

1 mark

Circle how confident you feel with decimals and percentages.

1	2	3	4	5
Not confident				Very confident