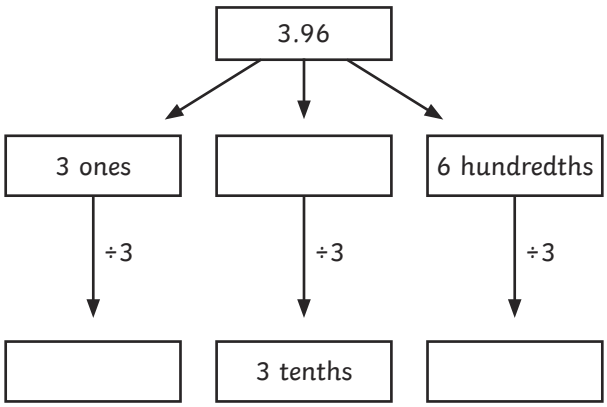
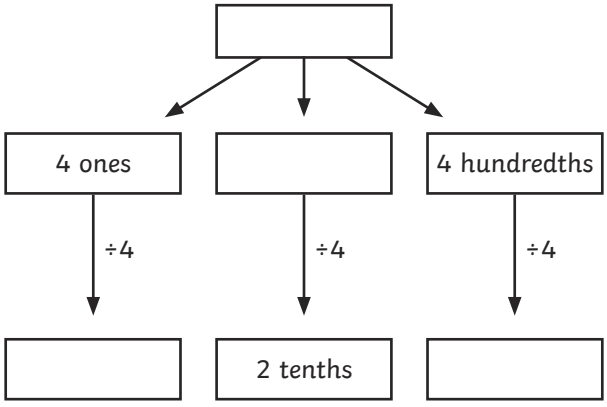
1) Complete these part-whole division calculation models.

3.96 ÷ 3



Answer = ☐

☐.☐☐ ÷ 4



Answer = ☐

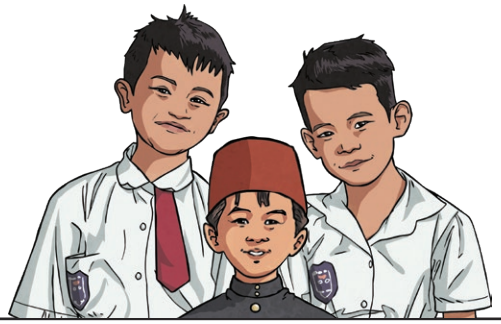
2) Solve these division calculations.

5.55 ÷ 5 = ☐ 6.82 ÷ 2 = ☐

8.12 ÷ 4 = ☐ 11.9 ÷ 7 = ☐

3) Charlie cuts a 10.25m piece of wood into five equal pieces. How long is each piece?

4) Three brothers are all paid an equal sum of pocket money. Altogether they were paid £19.80. How much did each brother receive?



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3.96 ÷ 3

3.96
3 ones
6 hundredths
÷3
÷3
÷3
3 tenths

Answer = ☐

☐.☐☐ ÷ 4

4 ones
4 hundredths
÷4
÷4
÷4
2 tenths

Answer = ☐

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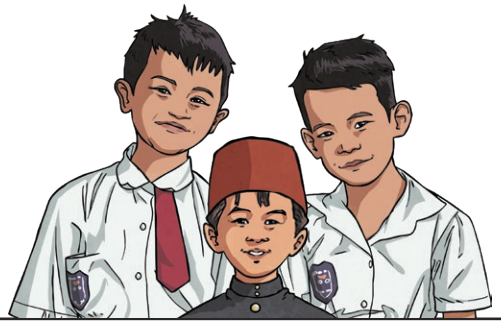

1) Madison is using this place value chart to answer this division.

$8.48 \div 4 =$

She writes 2.14 as her answer. Refer to the place value chart and explain to Madison why her answer is incorrect.

ones	tenths	hundredths
1 1	0.1	0.01 0.01 0.01 0.01
1 1	0.1	0.01 0.01 0.01 0.01
1 1	0.1	
1 1	0.1	

2) Amelia and Ben have both used a place value grid to help them calculate the answer to this division question.

$3.12 \div 3 =$

Amelia's grid

ones	tenths	hundredths
1	0.1	0.01
1		0.01
1		

Ben's grid

ones	tenths	hundredths
1		0.01 0.01 0.01 0.01
1		0.01 0.01 0.01 0.01
1		0.01 0.01 0.01 0.01

Looking at her place value grid, Amelia thinks that 3.12 can't be divisible by three. When Ben looks at his place value grid, he thinks that he can see that 3.12 is divisible by three.

Which child is correct? Can you explain what Ben has done in his place value grid that Amelia has not done in hers?

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1) The first grid shown below is a decimal magic square. Each row, column and diagonal add up to the same number.

19.8	25.2	19.8
21.6	21.6	21.6
23.4	18.0	23.4

6.6		

a) Divide each of the numbers in the magic square by 3 and record the answer in the corresponding space in the empty grid.

b) What do you notice about the totals of the rows, columns and diagonals in the second square? Why do you think this is?

2) Complete this number statement.

Do not use a digit more than once in the first part of the calculation. Find ten different possibilities.

Different digits from 0-9 may be used once here.	A digit from 2-9 may be used here.

□ . □□ ÷ □ = An answer between 1 and 4

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