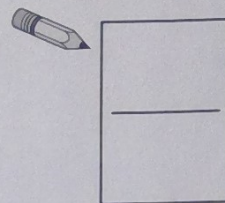


Mixed Practice

That's the end of Ratio, Proportion & Algebra — test how much you've learnt with these questions.

- 1 Wyatt and Mason share a melon.
For every 1 slice Wyatt gets, Mason gets 3.

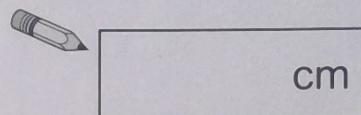
What fraction of the melon does Wyatt get?



1 mark

- 2 On a map, 1 cm represents 10 km.
Michelle's school is 15 km from her house.

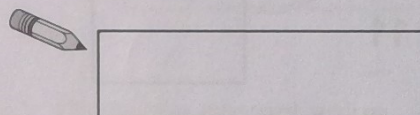
How far apart are her school and her house on the map?



1 mark

- 3 Olga has 4 blue pencils and 1 red pencil.
David has 3 blue pencils and 1 red pencil.

Who has the higher percentage of blue pencils?



1 mark

- 4 A theatre charges £12 per ticket.
There is also a £3.50 fee for each order.

Circle the formula below that you could use to work out how much it would cost to order any number of tickets.



$$£3.50 \times \text{Number of tickets} + £12$$

$$£12 \times \text{Number of tickets} - £3.50$$

$$£3.50 \times \text{Number of tickets} - £12$$

$$£12 \times \text{Number of tickets} + £3.50$$

1 mark

Hakim buys three tickets. What is the total cost of his order?



£

1 mark

Mixed Practice

5

Penelope has a collection of 150 old coins.
12% of them are more than 100 years old.

How many of Penelope's coins are more than 100 years old?



1 mark

6

Leo and Violet have knitted some scarves.
Leo has knitted 3 in every 5 of the scarves.

Together, they have knitted 25 scarves.
How many scarves did Leo knit?



1 mark

7

The numbers in this sequence decrease by the same amount each time.

Fill in the missing terms.

11



3

-1



...

1 mark

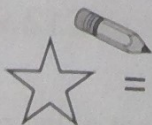
8

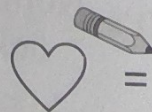
The shapes below stand for numbers.

Find the value of each shape.

$$\star + \star + \star = 15$$

$$\heartsuit + \heartsuit - \star = 11$$





2 marks

Check how well you've done with Ratio, Proportion & Algebra by adding up your marks from these Mixed Practice pages. Write your score in the box on the right, then fill in the scoresheet at the end of the book.

/ 10