

Spicy Reasoning Week 7 Year 5

Q1. A shop sells three types of sunglasses.

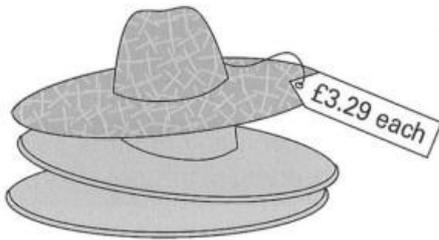


What is the **difference** in price between the **most** expensive and **least** expensive sunglasses?



1 mark

The shop also sells sun hats.



Ryan buys the **£4.69 sunglasses** and a **sun hat**.

How much change does he get from **£10**?



Show your **working**.
You may get a mark 

2 marks

Q2.



Sapna and Robbie have some biscuits.

Altogether they have **14** biscuits.

Sapna has **2 more** biscuits than Robbie.

How many biscuits do Sapna and Robbie each have?

 **Sapna**

Robbie

1 mark

Q3. Josh thinks of a number.



He adds 4

He multiplies his result by 3

Then he takes away 9

His final answer is 90

What number did Josh start with?

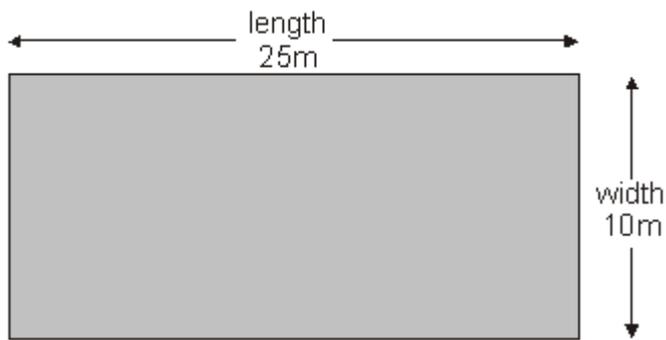


1 mark

Q4.



A rectangular swimming pool is 25 metres long and 10 metres wide.



David swims **5 lengths**.

Rosie swims **12 widths**.

How much **further** does David swim than Rosie?



Show
your **working**.
You may get
a mark

metres

2 marks

Q5. Hassan scores 40 out of 80 in a test.

Kate scores 40% in the same test.

Who has the higher score?

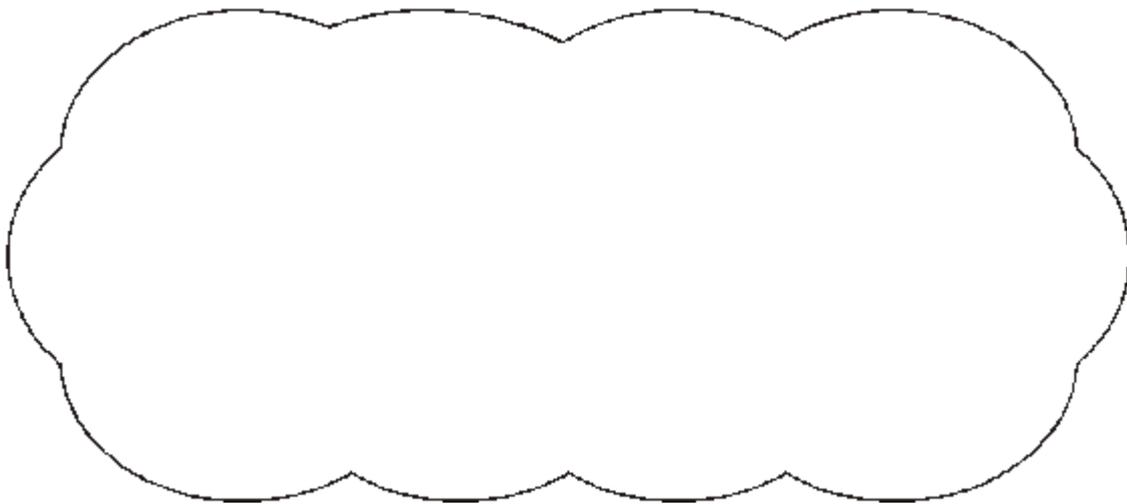
Circle **Hassan** or **Kate**.

Handwritten mark

Hassan / Kate

Explain how you know.

Handwritten mark



1 mark

Q6.



Kate and Jamie each have some money.

Altogether they have **£1.50**

Kate gives Jamie **10p** so that they both have the same amount.

How much money did each have at the start?

Show your **working**.
You may get a mark

Kate had p Jamie had p

2 marks

ANSWERS!!

M1. (a) £2.86

1

(b) Award **TWO** marks for the correct answer of £2.02 **OR** 202p

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg

$$4.69 + 3.29 = 7.98$$

$$10 - 7.98 = \text{wrong answer}$$

*Accept for **ONE** mark £202p **OR** £202 **OR** 2.02p as evidence of appropriate working*

*Calculation must be performed for the award of **ONE** mark*

Up to 2

M2. Sapna

8

Robbie

6

U1

M3. 29

M4. Award **TWO** marks for the correct answer of 5

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg

$$5 \times 25 = 125$$

$$12 \times 10 = 120$$

$$125 - 120 = \text{wrong answer}$$

*Calculation must be performed for the award of **ONE** mark.*

Up to 2

M5. An explanation which correctly compares two percentages or two scores, eg:

- '40 out of 80 is 50%'
- '50% is more than 40%'
- '40% of 80 is 32'
- '40 out of 80 is better than 40 out of 100'
- '40 out of 80 is more than 32 out of 80'
- 'Kate has less than half marks'.

No mark is awarded for circling 'Hassan' alone.

Do not accept vague or incomplete explanations, eg:

- 'Hassan has half marks'
- 'Percentages are bigger'
- 'Hassan has more than 40%'
- 'Kate has less than 40 out of 80'.

If 'Kate' is circled but a correct unambiguous explanation is given, then award the mark.

U1

M6. Award **TWO** marks for the correct answer as shown:

Kate had Jamie had

If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg

$$150 \div 2 = 75$$

$$(75 + 10) \text{ AND } (75 - 10)$$

OR

a 'trial and improvement' method, eg

- 55 35
65 45
75 55 (a difference of 20p)

OR

- 70 80
90 60
80 70 (a total of £1.50)

Accept for **ONE** mark:

Kate had Jamie had

OR

Kate had Jamie had

Answer need not be obtained for the award of **ONE** mark.

A 'trial and improvement' method must show evidence of improvement.

Up to 2 (U1)