Q1.

Here are five number discs.

(1) (3) (5̸) (7) (9)
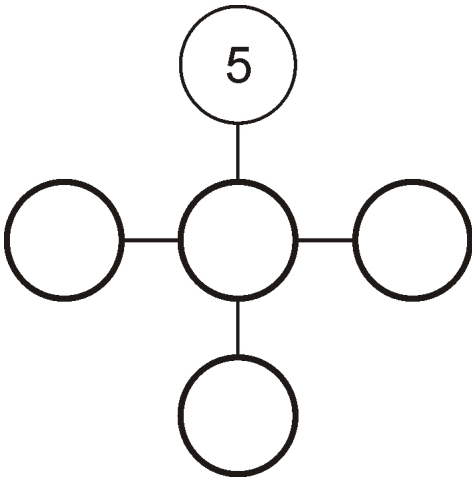
Look at the cross pattern below.

Use each disc **once** so that the total across is the same as the total down.

One has been done for you.

1 mark

Q2.

Liam has two different sizes of rectangle.

He makes this pattern with them.

Not actual size

Calculate the lengths of **A** and **B**.

A =   cm

1 mark

B =   cm

1 mark

Q3.

An iced cake costs 10p more than a plain cake.

Sarah bought two of each cake.

They cost £1 altogether.

What is the cost of an **iced** cake?

Show
your
method

p

2 marks

Q4.

Liam makes a sequence of numbers starting with 300
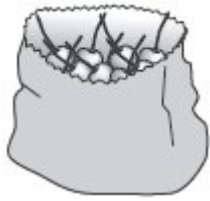
He subtracts 125 each time.

Write the next two numbers in Liam's sequence.

300   175   50

2 marks

Q5.

Sarah had a bag of cherries.

She ate 5 cherries, then gave half of what she had left to Liam.

Liam ate 5 of his cherries, then gave half of what he had left to Amy.

Amy got 2 cherries.

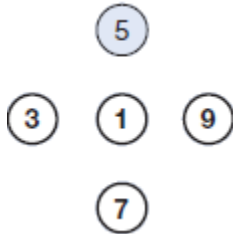How many cherries did Sarah have in her bag at the start?
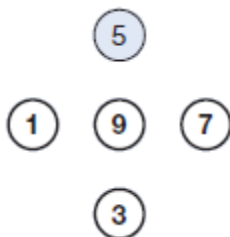
Show your method

2 marks

Mark schemes

Q1.

Diagram completed so that totals across and down are both 13 **OR** both 17, eg:

(5)

(3) (1) (9)

(7)

OR

(5)

(1) (9) (7)

(3)

U1

[1]

Q2.

(a)   5

1

(b)   15

If the answer is incorrect, award the mark if the answers to (a) and (b) total 20

U1

[2]

Q3.

Award **TWO** marks for the correct answer of 30p.

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

10p × 2 = 20p

£1 – 20p = 80p

80p ÷ 4 = 20p

20p + 10p = wrong answer

OR

£1 ÷ 2 = 50p

50p – 10p = 40p

40p ÷ 2 = 20p

20p + 10p = wrong answer

> *Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2 (U1)

[2]

Q4.

(a)   –75 in the first box

> ***Do not** accept 75–*

1

(b)   –200 in the second box

> ***Do not** accept 200–*
>
> *Accept a number 125 less than the answer to (a), provided the answer to 18a is negative.*

1

[2]

Q5.

Award **TWO** marks for the correct answer of 23

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

2 × 2 = 4

4 + 5 = 9

9 × 2 = 18

18 + 5 = wrong answer

> *Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2 (U1)

[2]