10 Question Challenge!

Q1. Here is a number grid.

4

41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90

Two squares are shaded.

What is the total of the numbers in the two shaded squares? (a)

it is

Shade two different squares that have the same total as the answer to part (a). (b)

(C) What is the total of the numbers in all four shaded squares?

> 1 mark

1 mark

1 mark

Q2. A café sells small, medium and large drinks.

The table shows the number of drinks the café sold on one day.

	Coffee	Теа	Chocolate	
Small	110	14	24	
Medium	121	103	42	
Large	90	64	58	

(a) Altogether, how many chocolate drinks were sold?



.....

(b) A small tea costs 50p.

Altogether, how much was spent on small teas?



1 mark

2 marks

Q3. Write the missing numbers in the boxes.



Q4. In this question you need to know:

.lo's hirthday is June 5th .	1	
		100

(a) Sanjay's birthday is exactly **three weeks after** Jo's birthday.

On what date is Sanjay's birthday?

(C))

(b) Tina's birthday is **5 months after** Jo's birthday.In which month is Tina's birthday?

 Q5. Complete this diagram so that the three numbers in each line add to 8



2 marks

- **Q6.** A sports centre has two different clubs.
 - (a) **22 children** go to the gym club.

Complete the pictogram.



1 mark

(b) **10 more girls** than boys go to the swimming club.

Complete the key.

Swimming c	lub				
		K	ey: 💽	=	children
Boys	÷	∷	$\mathbf{:}$		
Girls	÷	:	:	Ŀ	•

1 mark

Q7.

(a) Work out the answer.

 $2 + (16 \div 2) + 6 = \dots$

1 mark

1 mark

(b) Put brackets in the calculation below to make it correct.

× 2 + 16 ÷ 2 + 6 = 4

Q8. A teacher said:

Choose values for a and b

Use the letters to make expressions for the numbers 1 to 8

(a) One group of pupils chose a = 2 and b = 3

Complete their table.

	a = 2 $b = 3$
	b-a = 1
	<i>a</i> = 2
	<i>b</i> = 3
	$2 \times a = 4$
it is	= 5
	$a \times b = 6$
	$2 \times a + b = 7$
it is	= 8

2 marks

(b) Here is part of the table from a **different** group of pupils.

$2 \times a = 6$
a + b = 7

What values did they choose?



Q9. The shaded rectangle is **twice as long** as it is wide.

The **perimeter** of the rectangle is **30cm**.



Work out the size of angle \boldsymbol{k}

4 ...

k =°

2 marks