

Q1.

In this sequence, the rule to get the next number is

Multiply by 2, and then add 3

Write the missing numbers.

	25	53	
--	----	----	--

2 marks

Q2.

The numbers in this sequence increase by 30 each time.

20 50 80 110 ...

The sequence continues in the same way.

Which number in the sequence will be **closest to 300**?

Show your method																				

2 marks

Q3.

Write the missing numbers so that $2a + 5b = 30$

One is done for you.

$2a + 5b = 30$ when $a = 0$ and $b = \underline{\quad 6 \quad}$

Show your method

2 marks

Here are the print prices again.

3p per page and 75p for the cover.

Write a formula for the **total cost** of printing a book with cover.

t stands for the total cost in pence.

Use **n** for the number of pages.

t = _____

2 marks

Q9.

Here is a pattern of number pairs.

<i>a</i>	<i>b</i>
1	9
2	19
3	29
4	39

Complete the **rule** for the number pattern.

$$b = \square \times a - \square$$

1 mark