

Q1. Here is a part of a pattern of calculations.

Fill in the missing numbers.

| | | | | | | |
|--------------------|---|-------|---|-------|---|-------|
| 5^2 | - | 5 | × | 3 | = | 10 |
| 6^2 | - | 6 | × | 4 | = | 12 |
| 7^2 | - | 7 | × | 5 | = | |
| 9^2 | - | 9 | × | | = | |
| ² | - | | × | | = | 24 |

(Total 4 marks)

Q2. The n^{th} term of a sequence is $n^2 + 50$

(a) Work out the first three terms of the sequence.

.....

Answer 1st term 2nd term 3rd term

(2)

(b) How many terms in the sequence are less than 100?

.....
.....
.....

Answer

(2)
(Total 4 marks)