Using number sequences and describing their rules







Find the next three terms in the number sequences	s:
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۱ د	۱6	Q	10	12	14
a,	<i>,</i> 0,	ο,	ΙU,	ΙZ,	14

b) 15, 19, 23, 27, 31...

c) 38, 33, 28, 23, 18...

d) 2, 3, 5, 8, 12...

e) 60, 55, 50, 45, 40...

16, 18, 20

35, 39, 43

13, 8, 3

17, 23, 30

35, 30, 25

f) 4, 7, 13, 22, 34...

g) 15, 12, 9, 6, 3...

h) 27, 22, 17, 12, 7...

i) 2, 4, 8, 16, 32...

j) 1, 1, 2, 3, 5, 8, 13...

49, 67, 88

0, -3, -6

2, -3, -8

64, 128, 256

21, 34, 45

Write down the rule for each number sequence:

k) 14, 18, 22, 26, 30...

l) 67, 61, 55, 49, 43...

Add 4

m) 36, 45, 54, 63, 72...

n) 5, 10, 20, 40, 80...

Subtract 6

Add 9

Times by 2

o) 45, 35, 26, 34, 27...

p) 1, 4, 9, 16, 25...

q) -7, -14, -21, -28, -35...

r) 8, 6, 2, 4, -2, 6, -8...

Subtract 10,11,12..

Square numbers

Subtract 7

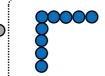
Subtract previous 2 terms

For each sequence of diagrams, draw the next pattern

















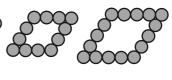




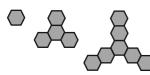




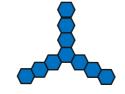


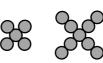




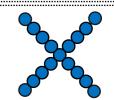












Exam question:

Matches are laid out in the patterns below. If the pattern continues, how many matches will be there be in the 4th and 5th diagrams?









