Using number sequences and describing their rules

29

maths-school.co.uk

Name:

Find the next three terms in the number sequences:

a) 6, 8, 10, 12, 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…

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…

Write down the rule for each number sequence:

k) 14, 18, 22, 26, 30…

l) 67, 61, 55, 49, 43…

m) 36, 45, 54, 63, 72…

n) 5, 10, 20, 40, 80…

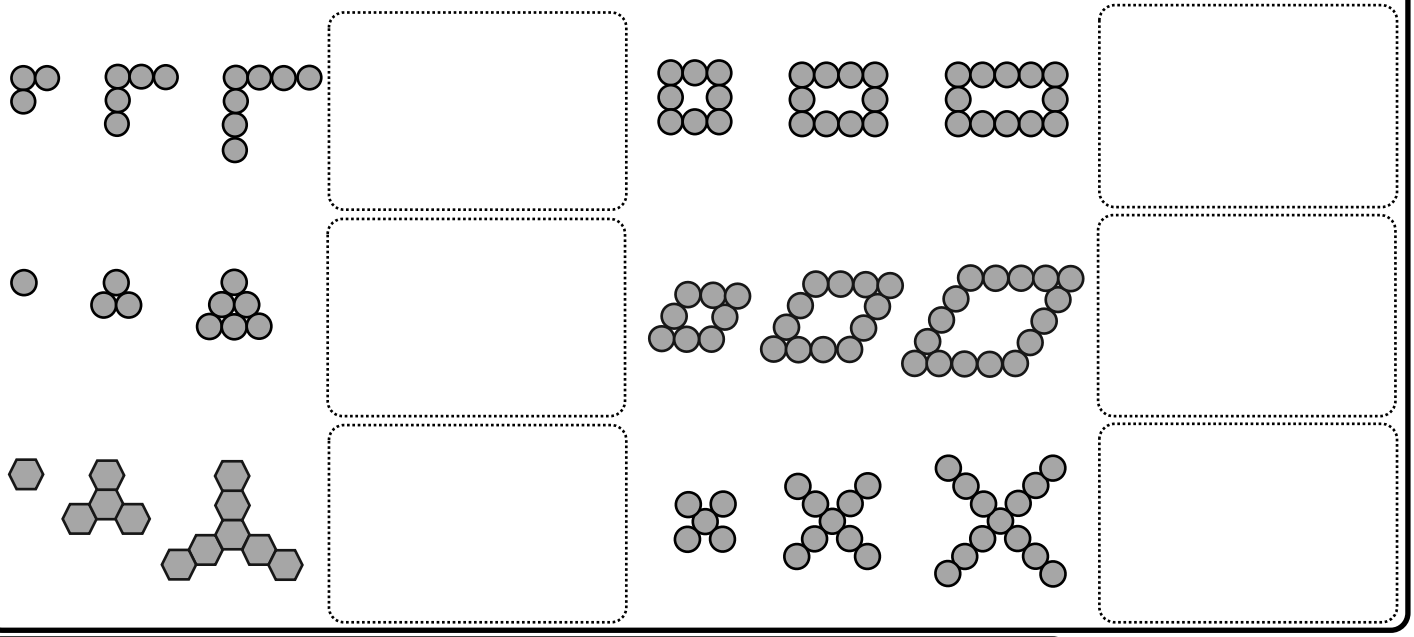
o) 45, 35, 26, 34, 27…

p) 1, 4, 9, 16, 25…

q) -7, -14, -21, -28, -35…

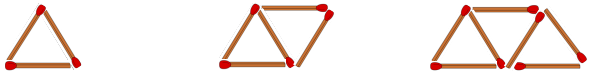
r) 8, 6, 2, 4, -2, 6, -8…

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?



1st 2nd 3rd 4th 5th