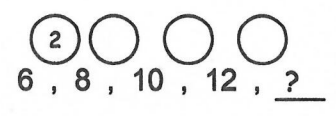


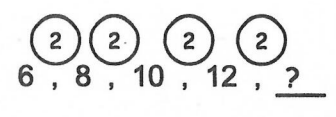
PA4-3: Increasing Sequences

Angel wants to continue the number pattern: 6, 8, 10, 12, ?

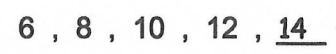
Step 1: She finds the difference between the first two numbers.



Step 2: She checks that the difference between the other numbers in the pattern is also 2.



Step 3: To continue the pattern, Angel adds 2 to the last number in the sequence.



1. Extend the following patterns. Start by finding the gap between the numbers.

a) 1, 3, 5, , ,

b) 0, 2, 4, , ,

c) 3, 7, 11, , ,

d) 2, 6, 10, , ,

e) 1, 4, 7, , ,

f) 5, 9, 13, , ,

BONUS:

g) 1, 11, 21, , ,

h) 5, 12, 19, , ,

i) 21, 24, 27, , ,

j) 86, 88, 90, , ,



Use increasing sequences to solve these problems.

- Mary reads 5 pages of her book each night. Last night she was on page 72.
What page will she reach tonight? _____ And tomorrow night? _____
- Jane runs 12 blocks on Monday. Each day she runs 4 blocks further than the day before.
How far does she run on Tuesday? _____ And on Wednesday? _____
On what day of the week will she run 28 blocks? _____