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MATHEMATICS



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INTERNATIONAL GCSE (9-1)

1. Consider the discrete data set given below.

2,4,3,6,7,12,14,6,3,13,15,1,7,0,17,14,15,18,20,12,13,4,3,7,6,0,1,10

a) Arrange the data set in an appropriate way using a table.

b) Hence find the mode, range and the mean of the distribution.

2. Information about lengths of pencils collected from a trash bin is given below. Find the mean length of the pencil.

Length (L in cm)	Number of pencils (Frequency)
4	7
5	5
6	4
7	2
8	1

3. Factorise each quadratic expression.

i. $x^2 + 14x + 48$

v. $2 - x - x^2$

ii. $x^2 - 14x + 40$

vi. $6 - x - x^2$

iii. $x^2 + 14x - 15$

vii. $12 + 4x - x^2$

iv. $x^2 - 14x - 32$

viii. $8 + 2x - x^2$

4. Simplify each numerical expressions using factors.

i. $100.1^2 - 0.1^2$

ii. $9999^2 - 1$

iii. $5.4 \times 3.6 + 3.6^2$

iv. $12.8 \times 11.8 - 11.8^2$