



ADMISSION TEST PAPER 2024-25
SUBJECT: MATHEMATICS
CLASS: 8

Name:
Date:

Duration: 30 min
Marks Obtained: /25

Q1. Given the equation $y = -5x - 2$, find the value of x when $y = 21$ (/3)

Q2. Umar bought the following items from a supermarket (/4)

Item	Quantity	Cost
oranges	18	3 for 99 cents
apples	2.2 kg	\$1.50 per kg
cabbage	3 kg	81 cents per kg
carrot	2.2 kg	\$3.40 per kg

Show how you estimate the total amount of money he has to pay, giving your answer as the nearest dollar.

Q3. Solve each of the following inequalities and illustrate the solution on number line. (/3)

a. $4x > 44$

b. $\frac{1}{3}y > 2$

Q4. The sum of two numbers is 150. If one of the numbers is three times the other, find the smaller number.

(/4)

Q5. Consider the sequence

4, 9, 14, 19,

(/5)

- a) write down the next two terms of the sequence
- b) find in terms of 'n', a formula for the nth term of the sequence
- c) hence find the 15th term

Q6. Factorise each of the following expressions completely.

(/3)

- a) $27a - 51$
- b) $xy + 2x - 5zxy - 10xz$

Q7. Express

(/3)

- a) 523.956 to the nearest whole number _____
- b) 97.341 correct to 2 decimal places _____
- c) 415.9560 correct to 3 significant figures _____