

1.3 MATHEMATICS (121 and 122)

1.3.1 Mathematics Alt. A Paper 1 (121/1)

SECTION 1 (50 marks)

*Answer **all** the questions in this section in the spaces provided.*

- 1** Without using a calculator, evaluate;

$$\frac{2\frac{1}{2} + \frac{2}{3} \text{ of } 3\frac{3}{4} - 4\frac{1}{6}}{1\frac{1}{4} - 2\frac{2}{3} \div 1\frac{1}{3} + 3\frac{3}{4}}$$

(3 marks)

- 2** The diagonal of a rectangular garden measures $11\frac{1}{4}$ m while its width measures $6\frac{3}{4}$ m. Calculate the perimeter of the garden.

(2 marks)

- 3** A motorist took 2 hours to travel from one town to another town and 1 hour 40 minutes to travel back. Calculate the percentage change in the speed of the motorist.

(3 marks)

- 4** A square room is covered by a number of whole rectangular slabs of sides 60 cm by 42 cm. Calculate the least possible area of the room in square metres.

(3 marks)

- 5** Given that $\sin (x + 60)^\circ = \cos (2x)^\circ$, find $\tan (x + 60)^\circ$.

(3 marks)

- 6** Simplify the expression:

$$\frac{4x - 9x^3}{3x^2 - 4x - 4}$$

(3 marks)

- 7** The external length, width and height of an open rectangular container are 41 cm, 21 cm and 15.5 cm respectively. The thickness of the material making the container is 5 mm. If the container has 8 litres of water, calculate the internal height above the water level.

(4 marks)

- 8** Factorise $2x^2y^2 - 5xy - 12$

(2 marks)

- 9** Using a ruler and a pair of compasses only:

- (a) construct a parallelogram PQRS in which PQ = 6 cm, QR = 4 cm and angle SPQ = 75° ;

(3 marks)

- (b) determine the perpendicular distance between PQ and SR.

(1 mark)

- 10** The masses of people during a clinic session were recorded as shown in the table below.

Mass (kg)	40-44	45-49	50-54	55-59	60-64	65-69	70-74
No. of people	1	2	12	10	2	2	1

Calculate the mean mass.

(3 marks)

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