

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  $11\frac{1}{2}$  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  $SPQ = 75^\circ$ ;

(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)

# Solved Paper 1

**F Rizvi**



## **Solved Paper 1:**

## Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Solved Paper 1**

In some sort of inundated with screens and the cacophony of fast transmission, the profound energy and mental resonance of verbal beauty frequently fade into obscurity, eclipsed by the constant barrage of noise and distractions. Yet, situated within the lyrical pages of **Solved Paper 1**, a fascinating work of fictional beauty that pulses with raw feelings, lies an unforgettable trip waiting to be embarked upon. Penned by way of a virtuoso wordsmith, this magical opus instructions readers on a psychological odyssey, delicately revealing the latent possible and profound affect embedded within the delicate internet of language. Within the heart-wrenching expanse of this evocative analysis, we can embark upon an introspective exploration of the book is key subjects, dissect its charming publishing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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