

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

JR Anderson



Solved Paper 1:

Unveiling the Energy of Verbal Art: An Mental Sojourn through **Solved Paper 1**

In a world inundated with displays and the cacophony of instant transmission, the profound power and mental resonance of verbal art often disappear in to obscurity, eclipsed by the constant barrage of noise and distractions. Yet, situated within the lyrical pages of **Solved Paper 1**, a charming perform of literary elegance that pulses with natural thoughts, lies an unique trip waiting to be embarked upon. Composed with a virtuoso wordsmith, this exciting opus guides readers on a mental odyssey, gently revealing the latent possible and profound affect embedded within the elaborate web of language. Within the heart-wrenching expanse with this evocative examination, we will embark upon an introspective exploration of the book is main styles, dissect their fascinating publishing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

<https://matrix.jamesarcher.co/results/scholarship/Documents/booktok%20trending%20novel.pdf>

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Solved Paper 1 :

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