

MEMORANDUM – GR 8 NOVEMBER SECOND PAPER

- 1.1.1 0 and 90 (1)
- 1.1.2 Obtuse angle (1)
- 1.1.3 180° (1)
- 1.1.4 largest (1)
- 1.1.5 hypotenuse (1)
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- 1.2.1 D (1)
- 1.2.2 B (1)
- 1.2.3 B (1)
- 1.2.4 C (1)
- 1.2.5 D (1)
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- 1.3.1 Corresponding angles (1)
- 1.3.2 Co-interior angles (1)
- 1.3.3 Alternate angles (1)
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- 1.4.1 180° (1)
- 1.4.2 $\hat{O}_6$ (1)
- 1.4.3 90° (1)
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- 2.1.1 $\hat{R}_2 = 180^\circ - 87^\circ - 45^\circ = 48^\circ$ (Straight line) (2)
- 2.1.2 $\hat{Q} = 45^\circ$ (Alternate angles $PQ \parallel SR$) (2)
- 2.1.3 $\hat{P} = 87^\circ$ (Alternate angles $PQ \parallel SR$)
OR
 $\hat{P} = 180^\circ - 45^\circ - 48^\circ = 87^\circ$ (int $\angle^e \triangle PQR$) (2)
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- 2.2.1 $\hat{D}_1 = 180^\circ - 120^\circ = 60^\circ$ (Straight line) (2)
- 2.2.2 $\hat{A}_1 = 120^\circ - 70^\circ = 50^\circ$ (Ext angle $\triangle ABD$)
OR
 $\hat{A}_1 = 180^\circ - 70^\circ - 60^\circ = 50^\circ$ (Sum $\angle^s \triangle ABD$) (2)
- 2.2.3 $\hat{A}_2 = 180^\circ - 50^\circ - 70^\circ - 40^\circ = 20^\circ$ (Sum $\angle^s \triangle ABC$)
OR
 $\hat{A}_2 = 60^\circ - 40^\circ = 20^\circ$ (Ext angle $\triangle ADC$) (2)
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- 3.1 $25^2 = 625$
 $7^2 + 23^2 = 578$
 $625 \neq 578$
Thus not right-angled (4)
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- 3.2.1 $PQ^2 = 15^2 - 9^2 = 144$
 $\therefore PQ = 12cm$ (2)
- 3.2.2 $TR^2 = 3^2 + 4^2 = 25$
 $\therefore TR = 5cm$ (2)
- 3.2.3 $Area \triangle TRS = \frac{1}{2}bh$
 $= \frac{1}{2}(4)(3)$
 $= 6cm^2$ (3)

4.1 $Perimeter = 4 + 3 + 2 + 2 + 2 + 4 + 5 = 22cm$ (3)

4.2.1 $Area = \pi r^2$
 $= (3,14)(7)^2$
 $= 153,86cm^2$ (3)

4.2.2 $Area = \pi r^2$
 $= (3,14)(14)^2$
 $= 615,44cm^2$ (3)

4.2.3 $Area = 615,44 - 153,86 = 461,58cm^2$ (3)

4.3.1 radius (1)

4.3.2 Diameter (1)

4.3.3 Chord (1)

4.3.4 segment (1)

5.1.1

0	1	3	3	5	6	6	7	7	9				
1	0	0	1	1	2	3	3	4	5	6	7	8	
2	0	0	1	1	2	2	3	3	4				

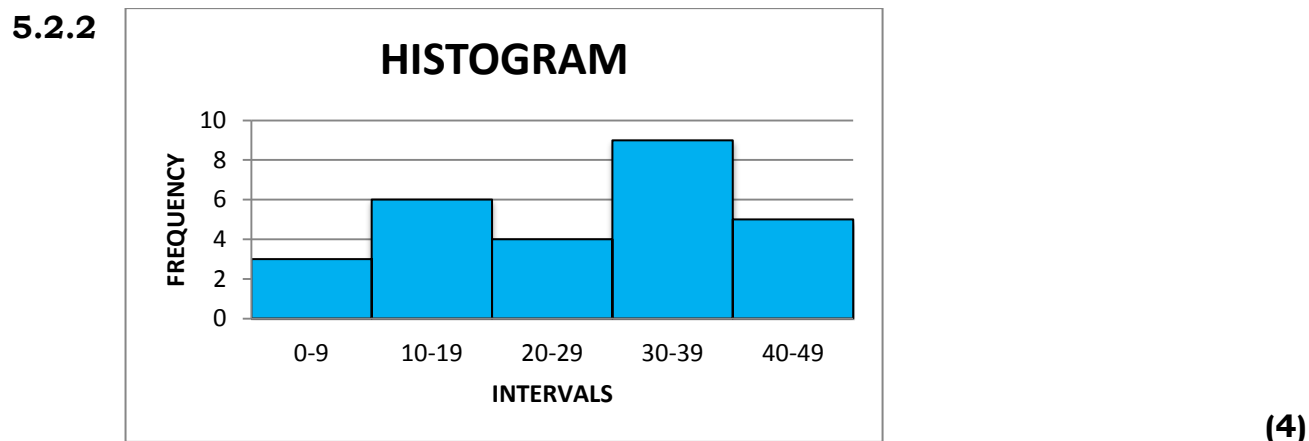
(4)

5.1.2 $Average = \frac{403}{30} = 13,43$ (3)

5.2.1

INTERVAL	TALLY	FREQUENCY
0 - 9		3
10 - 19		6
20 - 29		4
30 - 39		9
40 - 49		5
TOTAL		27

(2)



6.1.1 $\frac{1}{8}$ (1)

6.1.2 $\frac{1}{8}$ (1)

6.1.3 $\frac{3}{8}$ (1)

6.1.4 $\frac{4}{8} = \frac{1}{2}$ (1)

6.2.1 $\frac{2}{6} = \frac{1}{3}$ (1)

6.2.2 $\frac{1}{6}$ (1)

6.2.3 0 (1)