



**SEKOLAH BERASRAMA PENUH  
BAHAGIAN PENGURUSAN  
SEKOLAH BERASRAMA PENUH/ KLUSTER  
KEMENTERIAN PELAJARAN MALAYSIA**

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**PEPERIKSAAN PERCUBAAN PMR SELARAS SBP  
TINGKATAN 3, 2008**

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# MARKING SCHEME

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## MATHEMATICS PAPER 1 & PAPER 2

### NOTE

This marking scheme serves as a guide only. Other method which are equivalent and suitable may also be adapted and used in the awarding of marks.

THANK YOU

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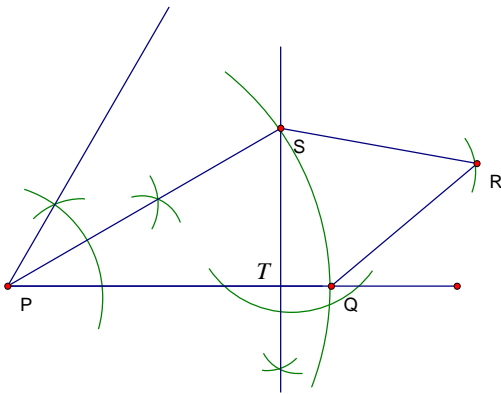
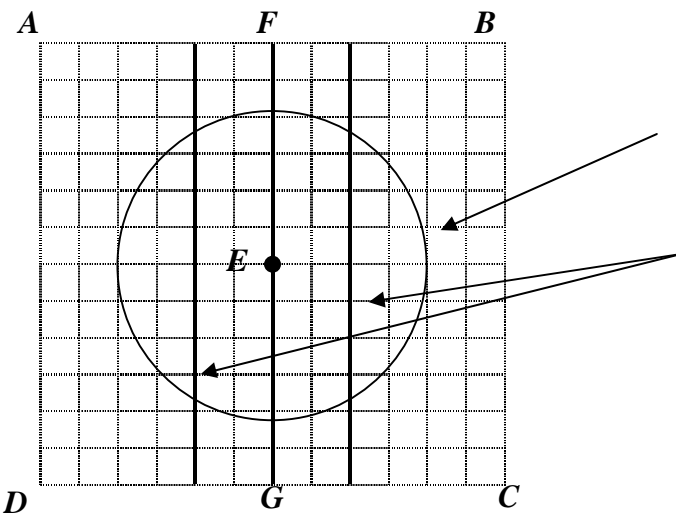
This marking scheme consists of 7 printed pages

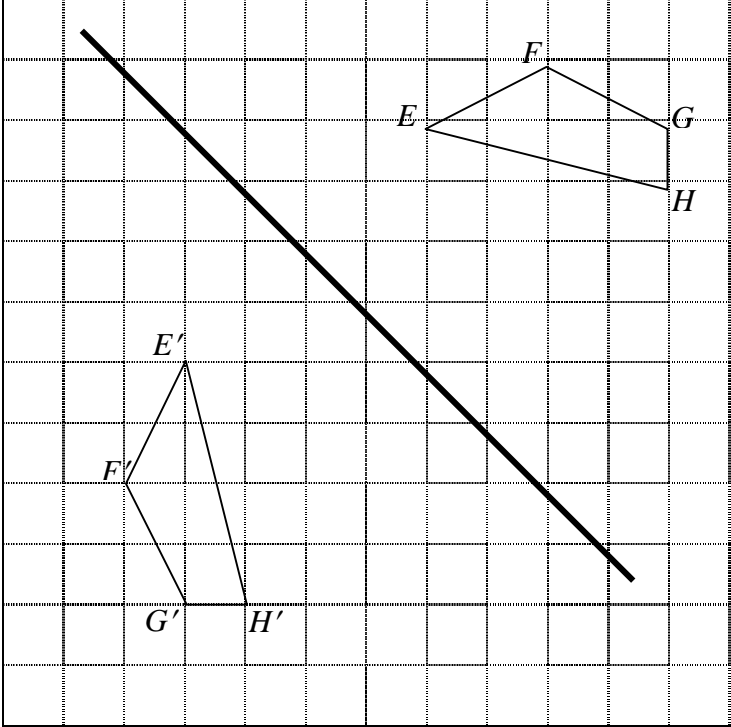
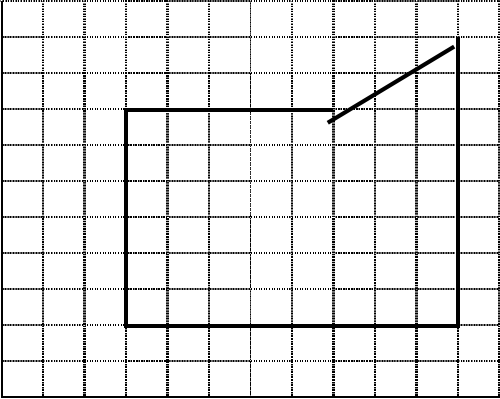
**PEPERIKSAAN PERCUBAAN PMR SELARAS SBP 2008**  
**SKEMA JAWAPAN MATEMATIK KERTAS 1**

<b>Q</b>	<b>Answer</b>	<b>Q</b>	<b>Answer</b>
1.	C	21.	B
2.	A	22.	B
3.	B	23.	D
4.	C	24.	C
5.	C	25.	A
6.	D	26.	C
7.	C	27.	D
8.	A	28.	B
9.	A	29.	B
10.	B	30.	B
11.	C	31.	C
12.	B	32.	C
13.	A	33.	D
14.	D	34.	B
15.	C	35.	D
16.	C	36.	C
17.	C	37.	D
18.	C	38.	A
19.	B	39.	A
20.	C	40.	D

**SKEMA JAWAPAN MATEMATIK KERTAS 1**

Marking Scheme		Sub mark	Full mark
<b>1</b>	$26 - 6(5)$ @ $26 - 30$ $- 4$	K1 N1	<b>2</b>
	Note: 5 seen P1		
<b>2</b>	$\frac{5}{4} \times 0.56$ $0.7$	K1 N1	<b>2</b>
	Note: $\frac{5}{4}$ or equivalent P1		
<b>3</b>	(a) $-0.125$ (b) $(-0.3)^2$ $0.09$	N1  K1 N1	<b>3</b>
	Note: $\left(\frac{1}{2} - 0.8\right)$ seen P1		
<b>4</b>	(a) $3k^2 + k$ (b) $9e^2 - 12e - 12e + 16$ @ $4e - 4$ $9e^2 - 20e + 12$	P1  K1 N1	<b>3</b>
<b>5</b>	(a) $p(1 - r)$ (b) $mn(m^2 - 1)$ $mn(m + 1)(m - 1)$	P1 K1 N1	<b>3</b>
<b>6</b>	$\frac{9cd - 4cd - 6d}{4d^2}$ $\frac{5cd - 6d}{4d^2}$ or equivalent $\frac{5c - 6}{4d}$	K1  K1  N1	<b>3</b>
<b>7</b>	(a) $n = -1$ (b) $9y - 2y = 8 + 5$ or $7y = 13$ $y = \frac{13}{7}$ @ $1\frac{6}{7}$	N1 K1 N1	<b>3</b>
<b>8</b>	$\frac{V}{3m} = r^3$ $r = \sqrt[3]{\frac{V}{3m}}$	K1  N1	<b>2</b>

Marking Scheme		Sub mark	Full mark
9	<p>(a)</p>  <p>(a) Construct angle <math>30^{\circ}</math> Line PS Line SR</p> <p>(b) Angle <math>90^{\circ}</math></p> <p>(c) <math>4.1 \text{ cm} \pm 0.1 \text{ cm}</math></p>	<p>K1 K1 K1 K1 N1</p>	5
10	<p>(a) The line BD or B to D or angle bisector of <math>\angle ABC</math> / <math>\angle ADC</math></p> <p>Note: Draw only P1</p> <p>(b)</p>  <p>(c) 4 Note: no mark for plotting intersection point</p>	<p>P2</p> <p>K1 K1 N1</p>	5
11	<p>Enlargement Scale factor = 3 Center of enlargement (2,12)</p>	<p>P1 P1 P1</p>	3

Marking Scheme		Sub mark	Full mark
12	 <p>Note: Dotted line P1</p>	P2	2
13	 <p>Note: 1. Dotted line P1 2. One or two side wrongly drawn P1 3. More than 2 side wrongly drawn P0</p>	P2	2

Marking Scheme		Sub mark	Full mark
14	$9^{\frac{1}{2}} \times (f^3)^{\frac{1}{2}} \times (h^4)^{\frac{1}{2}} \times f^{\frac{1}{2}} \times h^{-2}$ @ $3 \times f^{\frac{3}{2}} \times h^2 \times f^{\frac{1}{2}} \times h^{-2}$ $3 \times f^{\frac{3+1}{2}} \times h^{2-2}$ @ $3 \times f^2 \times h^0$ $3f^2$	K1  K1 N1	3
15	$2^{1-2m} = 2^0$ or $1-2m = 0$ $m = \frac{1}{2}$	K1  N1	2
16	$x \leq 2$ $x > -\frac{3}{2}$ $x = -1, 0, 1, 2$	K1  K1  N1	3
17	(a) $x = 7$ (b) Each sector drawn correctly – 1M each Doctor = $117^0$ Engineer = $108^0$ Architech = $63^0$ Note: 1. Angle of sector drawn incorrectly and all the calculation are correct. P1	N1  K1 K1 K1	4
18	(a) $\sin x^o = \frac{3}{5}$ (b) $\cos \text{SRT} = \frac{5}{RS} = \frac{1}{3}$ or equivalent. $RS = 15$	N1  K1  N1	3

<b>Marking Scheme</b>		<b>Sub mark</b>	<b>Full mark</b>										
19	<p>(a)</p> <table border="1"> <thead> <tr> <th>Type of food</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>9</td> </tr> <tr> <td>MR</td> <td>4</td> </tr> <tr> <td>MG</td> <td>7</td> </tr> <tr> <td>R</td> <td>10</td> </tr> </tbody> </table> <p>Note:</p> <ol style="list-style-type: none"> <li>One frequency wrong 1M</li> <li>Two or more frequency wrong 0M</li> </ol> <p>(b) R</p>	Type of food	Frequency	L	9	MR	4	MG	7	R	10	K2            P1	            3
Type of food	Frequency												
L	9												
MR	4												
MG	7												
R	10												
20	<p>Correct scale All points correctly plotted Smooth graph</p> <p>1 or 2 incorrect plotted P1</p>	K1 K2 N1	            4										