

SKEMA JAWAPAN MATEMATIK KERTAS 1 (50/1)

PEPERIKSAAN PERCUBAAN PMR 2013

JABATAN PENDIDIKAN NEGERI PAHANG

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

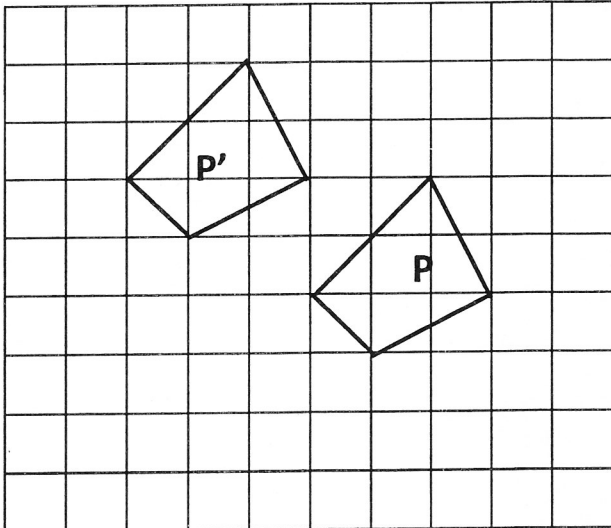
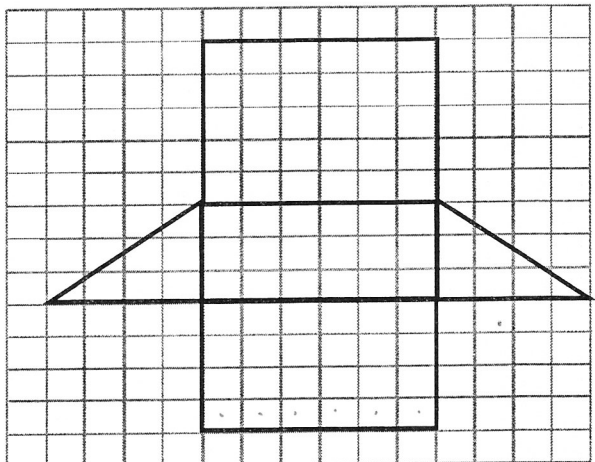
$$(m-2)^2 - m(m-1) + 6$$

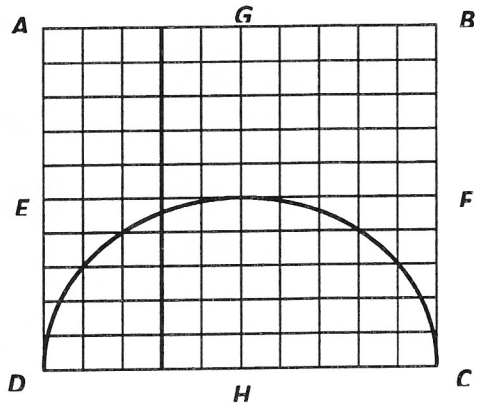
$$\begin{array}{l} m^2 - 2 \cdot 2^2 - 4m \\ m^2 + 4 - 4m \end{array} \left\{ \begin{array}{l} -m^2 + 1m + 6 \\ -m^2 + 1m + 6 \end{array} \right.$$

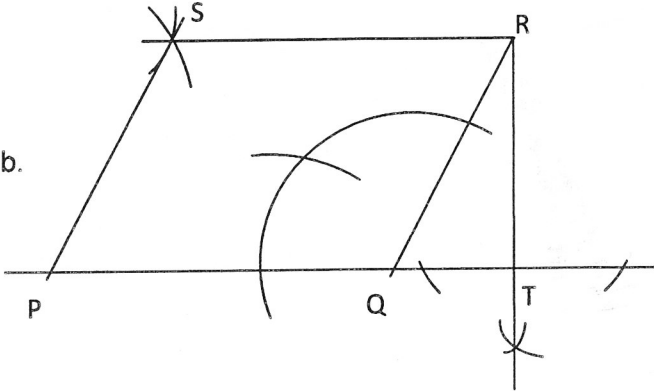
PEPERIKSAAN PERCUBAAN PMR TAHUN 2013

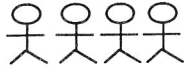

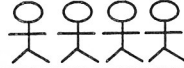

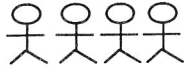

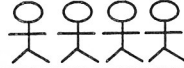

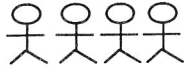

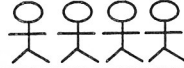
SKEMA MATEMATIK KERTAS 2

No	Marking Scheme	
1	7 seen 22	K1 N1
2	$-\frac{13}{4} \times \frac{1}{39}$ or $-\frac{1}{12}$ or $\frac{35}{12}$ $2\frac{11}{12}$	K1 N1
3	(a) $\frac{5}{7}$ (b) -2 @ -9 seen 81	N1 K1 N1
4	QR = 8 cm $\tan p = -\frac{6}{8} = -\frac{3}{4}$	K1 N1
5	$m^2 - 4m + 4$ @ $-m^2 + m$ seen $m^2 + 4 - 4m$ $-3m + 10$	K1 N1
6	(a) -9 (b) $-16k = 1 - 6k$ @ $-16k + 6k = 1$ @ $-10k = 1$ $-\frac{1}{10}$	N1 K1 N1
7	a) $p(p+7)$ b) $3(1-9p^2)$ seen $3(1-3p)(1+3p)$	N1 K1 N1
8	d^{12} @ e^6 seen $d^{11}e^8$	K1 N1

9	$x < 10$ seen $x \geq -3$ seen $-3 \leq x \leq 10$ $x = -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9$	P1 P1 N1
10	 <p>Note: Ignore label</p>	P2
11	 <p>All sides correctly drawn 2 sides correctly drawn</p>	P2 P1

12	$3x = 9y + 24 @ 3x = 24 + 9y @ \frac{3(x-2)}{3} - 3y = 6$ $3x = 3(3y+8) @ x - 2 - 3y = 6 @ x - 3y = 8$ $x = 3y + 8$	P1 P1 N1
13	$\frac{q+2}{3q} - \frac{6-2q}{3q} @ \frac{q+2-6+2q}{3q}$ or equivalent $\frac{3q-3}{3q} @ \frac{3(q-1)}{3q}$ $\frac{q-1}{q}$	K1 K1 N1
14	<p>(a) The straight line EF or EF Award P1 if line EF drawn</p> <p>(b) Locus Y completely drawn Locus Z completely drawn</p> <p>(c) Intersection</p> <p>Note: Ignore label for locus Y and Z</p> 	P2 K1 K1 N1
15	<p>a) 20</p> <p>b) Angle ; Doctor = 135° Architech = 60° Engineer = 105° Lawyer = 60°</p>	N1 N1 N1 N1 N1

16	Rotation of 180° about the center P	P1 P1 P1
	i. Correct scale ii. All points plotted correctly iii. Points joined using a ruler <u>Note 1 :</u> i. wrong scale – 0 mark ii. more then 2 points wrongly plotted – 0 mark iii. 1 or 2 points plotted wrongly – 1 mark iv. points joined without ruler / dotted line – 1 mark	K1 K2 K1
17	All sides correctly drawn 2 sides correctly drawn	P2 P1
18	Directions of both axes correct, uniform scales All 7 points are plotted correctly Smooth curve passes through all the correct points Notes : Award K1 for 5 or 6 points correctly plotted	K1 K2 N1
19	a. Angle correctly measured = 70° b. 	P1 Nota: Mohon guru-guru mengukur sendiri untuk ketepatan. Jawapan bergantung kepada jawapan guru.

	Construction of 120° and the straight line from Q Construction of Intersection arc for line PS and line QR Complete diagram perpendicular line from R c. 3.5 cm	K1 K1 K1 K1 N1								
20	<p>Answer / Jawapan :</p> <table><tr><td>Mathematics <i>Matematik</i></td><td></td></tr><tr><td>Science <i>Sains</i></td><td></td></tr><tr><td>History <i>Sejarah</i></td><td></td></tr><tr><td>English Language <i>Bahasa Inggeris</i></td><td></td></tr></table> <p>All pictogram correctly drawn 2 pictogram correctly drawn 16</p>	Mathematics <i>Matematik</i>		Science <i>Sains</i>		History <i>Sejarah</i>		English Language <i>Bahasa Inggeris</i>		P3 P1 N1
Mathematics <i>Matematik</i>										
Science <i>Sains</i>										
History <i>Sejarah</i>										
English Language <i>Bahasa Inggeris</i>	