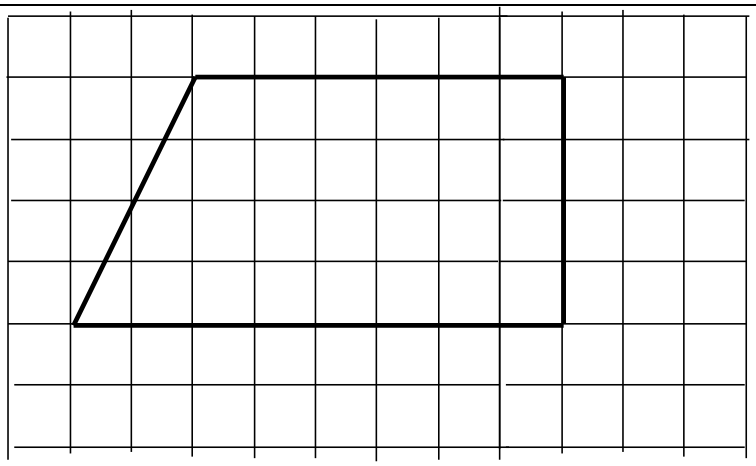
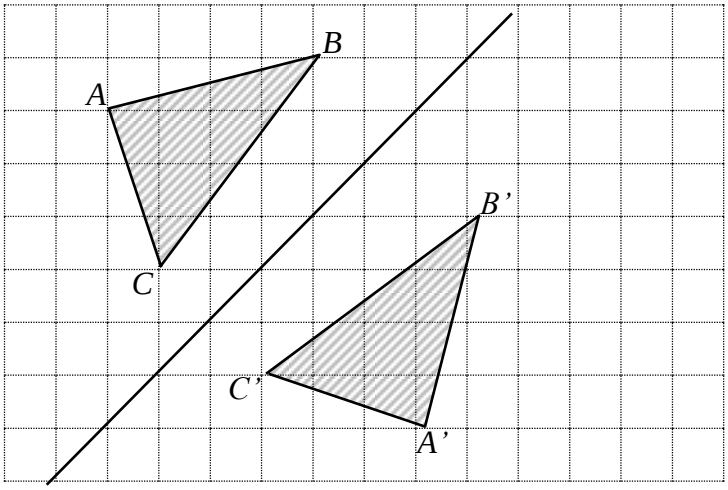
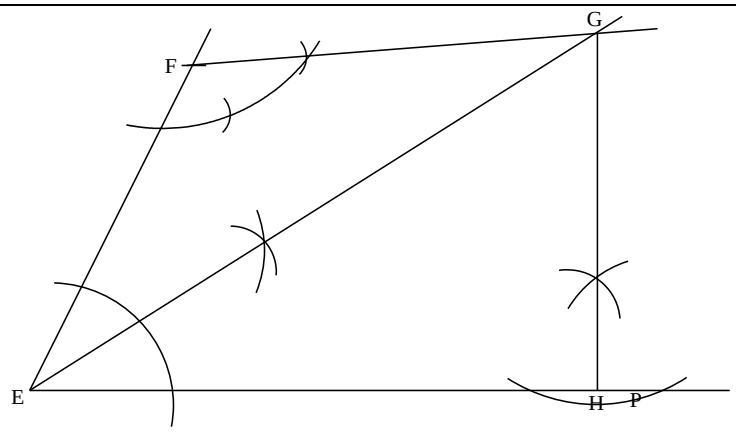
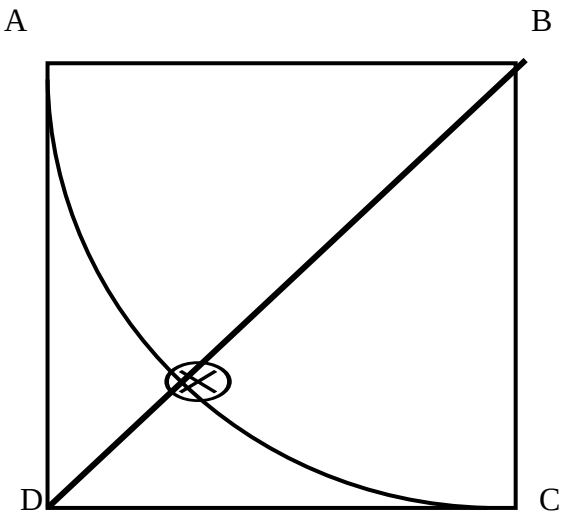
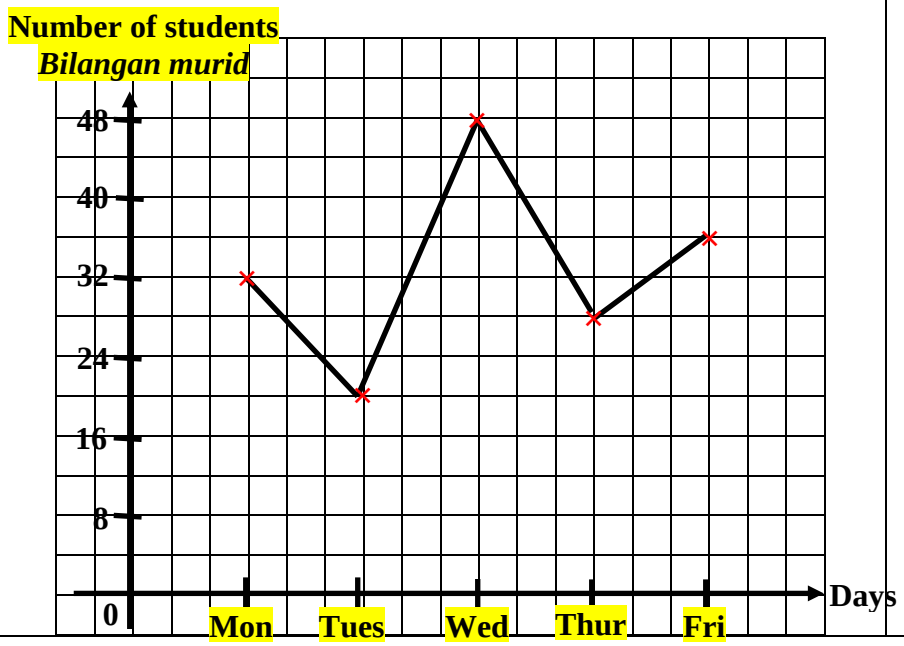
SMK KAPIT
TRIAL PMR 2012
MARKING SCHEME

ITEM	MARKING SCHEME	SUB-MARKS	MARKS
1.	100 +11 + 5 (see 11 award 1) 116	K1 N1	**2**
2.	$-\frac{17}{28}\times(\frac{14}{17})$ $-\frac{1}{2}$	K1 N1	**2**
3.	a) -4 (b) $(\frac{7}{5}-1)^3$ or $(\frac{2}{5})^3$ $\frac{8}{125}$	P1 K1 N1	**3**
4.	m = -13 2n – 5 = n + 2 n = - 11	N1 K1 N1	**3**
5.	 All 4 lines correctly drawn . Notes : 1. 2 line correctly drawn – N2 mark 2. Sketch – deduct 1 mark	N3	3
6.	Enlargement - N1 *Do not accept wrong spelling* Centre of enlargement (1, 0) – N1 Scale factor 3 – N1	N3	3

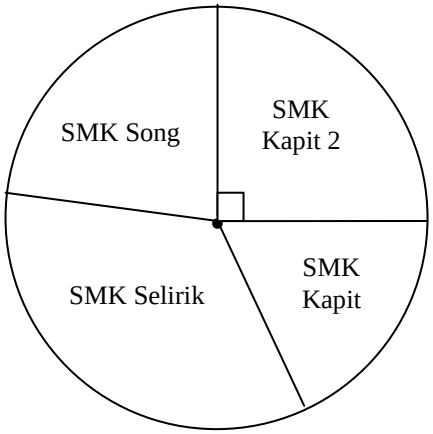
7.	 Note:- i) Dotted line drawn – award P1	P2	**2**

8.	$5x+10y=3-4y$ $10y+4y=3-5x$ $y=\frac{3-5x}{14}$	K1 K1 N1	**3**
9.	(a) cos y ^{0} = $\frac{6}{10}$ @ cos y ^{0} = $\frac{3}{5}$ (b) $\sqrt{12^2+5^2}$ @ $\sqrt{144+25}$ @ $\sqrt{169}$ 13	P1 K1 N1	**3**
10.	*10x – 14xy – 2xy + 7x* *17x – 16xy*	K1 N1	2
11.	$2(k^2-9)$ 2(k + 3) (k – 3)	K1 N1	**2**
12.	$\frac{(2t)1}{(2t)2t}-\frac{t-2}{4t^2}$	K1	**3**

	$\frac{2t-t+2}{4t^2}$ $\frac{t+2}{4t^2}$	K1 N1	
13.	a) $\angle$AFE or $\angle$EFA b) $3 \times \frac{12}{4}$ 9	P1 K1 N1	**3**
14.	See $3^{\frac{3}{2}} \times 5^{-\frac{1}{2}}$ or $3^2 \times 5$ award K1 45	K1 N1	2
15.	$y > 3$ $y \leq 7$ $y = \{4, 5, 6, 7\}$	K1 K1 N1	3
16.	 (a) Construct the bisector of $\angle$FEP correctly (b) Construct $\angle$EFG = 120° at F correctly Intersection between line FG and EG (c) Construct GH which is perpendicular to EP such that H is lies on EP correctly (d) GH = 5 ± 0.1 cm	 K1 K1 N1 K1 N1	5

17	a) Line AC  Draw a line of DB Draw a circle / semicircle about B with radius length of AC Marked correctly	N2 P1 P1 N1	**5**
18	 	K3 N1	**4**

	1. 5 points marked correctly award 3 marks 2. Straight line drawn correctly joining every point award 1 mark. 3. 3 or 4 point marked correctly award 2 marks. 4. ×1 point marked correctly award 1 mark.		

19	SMK Kapit = 60º SMK Selirik = 130º SMK Song = 80º x = 65 Two sectors drawn correctly award K1  Pie chart correctly drawn with correct label	K1 K1 N1	**3**
20	Graph functions 1. x - axis and y-axis correctly label award 1 mark 2. 8 points marked correctly award 2 marks Note:- 6 points marked correctly award K1 3. A smooth curve drawn passes through all 8 points award 1 mark.	K1 K2 N1	**4**