TOPIK : PERIMETER DAN LUAS

No		Peraturan Pemarkahan	Sub Markah	Jumlah Markah
1.	a.	Length of arc *AB* Length of arc *CDE* $= \frac{45°}{360°} \times 2 \times \frac{22}{7} \times 14 @ = \frac{135°}{360°} \times 2 \times \frac{22}{7} \times 28$ Perimeter = 11 + 66 + 14 + 28 = 119 cm	1 1 1	
	b.	Area of sector *AOB*Area of sector *OCDE* Area of semicircle *OFE* $= \frac{45°}{360°} \times \frac{22}{7} \times 14^2 @ = \frac{135°}{360°} \times \frac{22}{7} \times 28^2 \quad @ = \frac{1}{2} \times \frac{22}{7} \times 14^2$ Area of the shaded region = 77 + 924 – 308 = 693 cm^2	1 1 1	6
2.	a	$\frac{x^\circ}{3^\circ}$ x 2 x $\frac{2}{7}$ x 2.8 = 7.33 x = 7.33 x $\frac{3 \quad x7}{2x2 \quad x2.8}$ x = $\frac{1 \quad .2}{2}$ =149.93 ≈ 150	1 1 1	
	b.	Luas bahagian kipas biru = $\left(\frac{1}{3} x \frac{2}{7} x 2.8^2\right)$ - $\left(\frac{1}{3} x \frac{2}{7} x 2.1^2\right)$ = 10.26 – 5.77 = 4.49 m^2	1, 1 1	6
3.	a.	$\frac{180}{360} \times 2 \times \frac{22}{7} \times 14$ atau $\frac{45}{360} \times 2 \times \frac{22}{7} \times 14$ 14 + $\frac{45}{360} \times 2 \times \frac{22}{7} \times 14$ + 14 + $\frac{180}{360} \times 2 \times \frac{22}{7} \times 14$ 83	1 1 1	

	b.	$\frac{180}{360}\times\frac{22}{7}\times14^2$ atau $\frac{36}{360}\times\frac{22}{7}\times14^2$ atau $\frac{45}{360}\times\frac{22}{7}\times14^2$ $\left[\frac{180}{360}\times\frac{22}{7}\times14^2-\frac{36}{360}\times\frac{22}{7}\times14^2\right]+\frac{45}{360}\times\frac{22}{7}\times14^2$ 323.4atau $323\frac{2}{5}$ atau $\frac{1617}{5}$	1 1 1	6
4.	a.	$\frac{80}{360}\times2\times\frac{22}{7}\times14$ $\frac{80}{360}\times2\times\frac{22}{7}\times14+14+14$ $47\frac{5}{9}$atau$\frac{4}{9}$atau 47.56	1 1 1	
	b.	$\frac{80}{360}\times\frac{22}{7}\times14^2a$ $\frac{160}{360}\times\frac{22}{7}\times3^2$ $\frac{80}{360}\times\frac{22}{7}\times14^2-\frac{160}{360}\times\frac{22}{7}\times3^2$ $124\frac{2}{6}$atau$\frac{7}{6}$atau 124.32	1 1 1	6
5.	a.	*Perimeter* = 22 × 4 = 88 2® *j = 88* *j = 14*	1 1 1	
	b.	$\frac{90}{360}\times\frac{22}{7}\times10.5^2-\frac{90}{360}\times\frac{22}{7}\times6^2$ $58\frac{19}{56}$	1,1 1	6