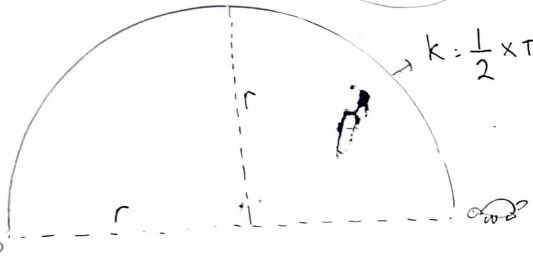


Jumat, 13 Nov 2020

Luas dan Keliling Bagian Lingkaran



$$K = \pi \times d$$

$$L = \pi \times r \times r$$

$$\left. \begin{array}{l} d = 2 \times r \\ r = \frac{d}{2} \end{array} \right\}$$

Contoh Soal

1



$$20 \text{ cm} = d$$

$$L \frac{1}{2} \text{O} = \frac{1}{2} \times \pi \times r \times r$$

$$= \frac{1}{2} \times 3,14 \times 10 \times 10$$

$$= \frac{1}{2} \times 314 = 157 \text{ cm}^2$$

31,4	
20,0	+
51,4	

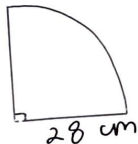
$$K \frac{1}{2} \text{O} = \frac{1}{2} \times \pi \times d + d$$

$$= \left(\frac{1}{2} \times 3,14 \times 20 \right) + 20$$

$$= 31,4 + 20$$

$$= 51,4 \text{ cm}$$

2



$$L \frac{1}{4} \text{O} = \frac{1}{4} \times \pi \times r \times r$$

$$= \frac{1}{4} \times \frac{22}{7} \times 28 \times 28$$

$$= 616 \text{ cm}^2$$

$$K \frac{1}{4} \text{O} = \frac{1}{4} \times \pi \times d + r + r$$

$$= \left(\frac{1}{4} \times \frac{22}{7} \times 56 \right) + 28 + 28$$

$$= 44 + 28 + 28 = 100 \text{ cm}$$

3



$$L \frac{3}{4} \text{O} = \frac{3}{4} \times \pi \times r \times r$$

$$= \frac{3}{4} \times \frac{22}{7} \times 7 \times 7$$

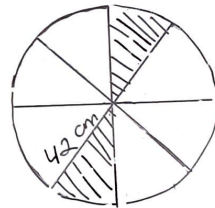
$$= 462 \text{ cm}^2$$

$$K \frac{3}{4} \text{O} = \frac{3}{4} \times \pi \times d + 2r$$

$$= \frac{3}{4} \times \frac{22}{7} \times 14 + 28$$

$$= 66 + 28 = 94 \text{ cm}$$

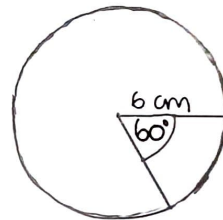
4



$$L \frac{2}{8} \text{O} = \frac{1}{4} \times \pi \times r \times r$$

$$= \frac{1}{4} \times \frac{22}{7} \times 42 \times 42$$

$$= 1386 \text{ cm}^2$$



$$L = \frac{60^\circ}{360^\circ} \times \pi \times r \times r$$

$$= \frac{1}{6} \times 3,14 \times 6 \times 6$$

$$= 18,84 \text{ cm}^2$$

$$K = \frac{60^\circ}{360^\circ} \times \pi \times d + r + r$$

$$= \frac{1}{6} \times 3,14 \times 12 + 6 + 6$$

$$= 6,28 + 12$$

$$= 18,28 \text{ cm}$$

6,28	
12,00	+
18,28	