

MATEMATIK TINGKATAN 2

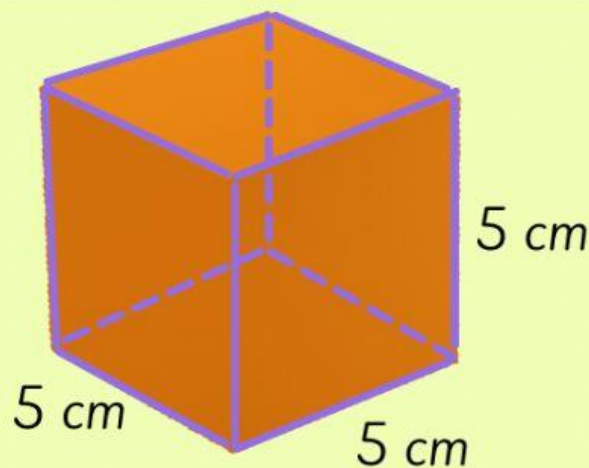
BAB 6: BENTUK GEOMETRI TIGA DIMENSI

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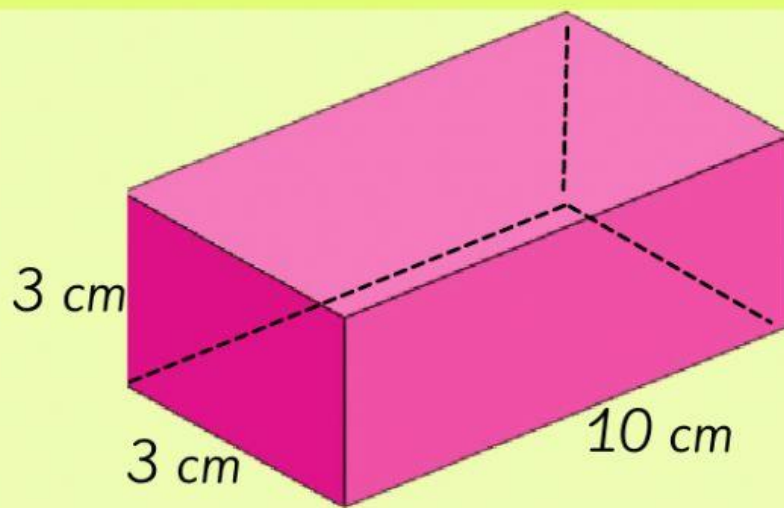
6.3: LUAS PERMUKAAN BENTUK GEOMETRI TIGA DIMENSI

1. Lengkapkan jalan kerja untuk menghitung luas permukaan pepejal berikut.

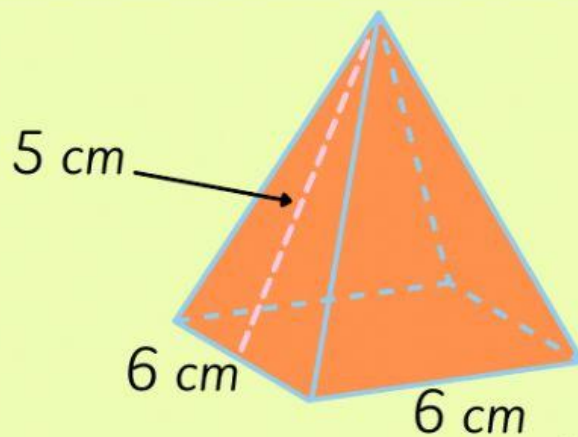
Arahan: Taipkan jawapan dalam ruang yang disediakan.



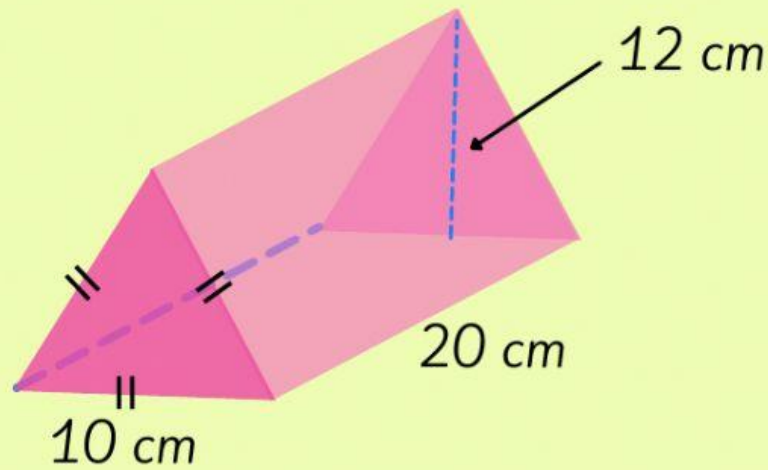
$$\begin{aligned}\text{Luas permukaan} &= \boxed{} \times \text{luas segi empat sama} \\ &= \boxed{} \times (\boxed{} \times \boxed{}) \\ &= \boxed{} \times \boxed{} \\ &= \boxed{} \text{ cm}^2\end{aligned}$$



$$\begin{aligned}
 \text{Luas permukaan} &= (4 \times \text{luas segiempat tepat}) + (2 \times \text{luas segi empat sama}) \\
 &= (4 \times \boxed{} \times \boxed{}) + (2 \times \boxed{} \times \boxed{}) \\
 &= \boxed{} + \boxed{} \\
 &= \boxed{} \text{ cm}^2
 \end{aligned}$$



$$\begin{aligned}
 \text{Luas permukaan} &= \text{luas segi empat tepat} + (4 \times \text{luas segitiga}) \\
 &= (\boxed{} \times \boxed{}) + (4 \times \frac{1}{2} \times \boxed{} \times \boxed{}) \\
 &= \boxed{} + \boxed{} \\
 &= \boxed{} \text{ cm}^2
 \end{aligned}$$

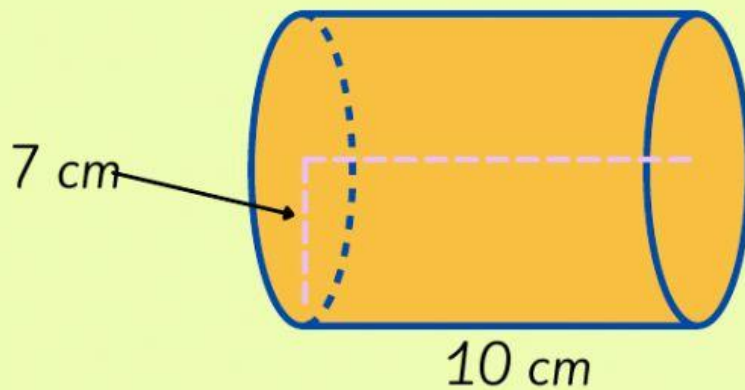


$$\text{Luas permukaan} = (3 \times \text{luas segiempat tepat}) + (1 \times \text{luas segi tiga})$$

$$= (3 \times \boxed{} \times \boxed{}) + (1 \times \frac{1}{2} \times \boxed{} \times \boxed{})$$

$$= \boxed{} + \boxed{}$$

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

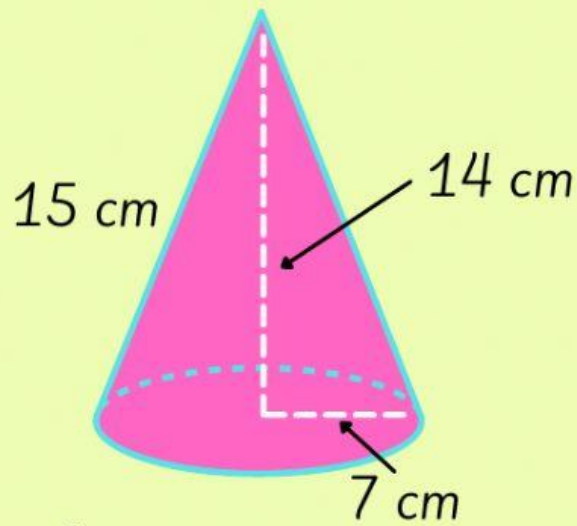


$$\text{Luas permukaan} = 2\pi r^2 + 2\pi r h$$

$$= (2 \times \frac{22}{7} \times \boxed{}^2) + (2 \times \frac{22}{7} \times \boxed{} \times \boxed{})$$

$$= \boxed{} + \boxed{}$$

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

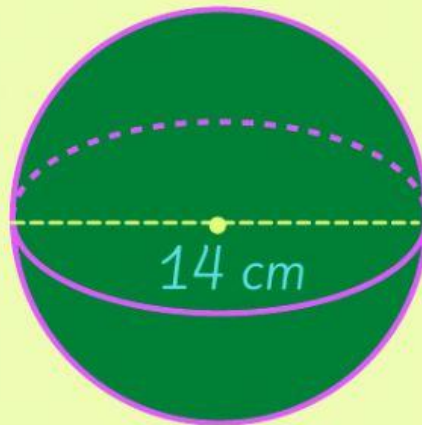


Luas permukaan = $\pi j^2 + \pi js$

$$= \left(\frac{22}{7} \times \boxed{}^2 \right) + \left(\frac{22}{7} \times \boxed{} \times \boxed{} \right)$$

$$= \boxed{} + \boxed{}$$

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



Luas permukaan = $4\pi j^2$

$$= \left(4 \times \frac{22}{7} \times \boxed{}^2 \right)$$

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