

LUAS PERMUKAAN BANGUN KUBUS DAN BALOK

$$\text{Luas Permukaan Bangun Kubus} = 6 \times S^2 = 6 \times S \times S$$

Keterangan : S = rusuk kubus

$$\text{Luas Permukaan Balok} = (2 \times p \times l) + (2 \times p \times t) + (2 \times l \times t)$$

Keterangan :

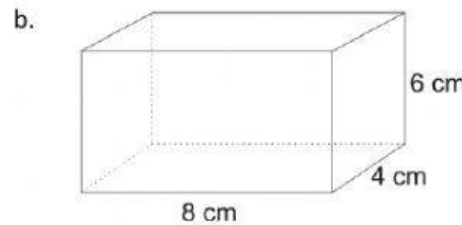
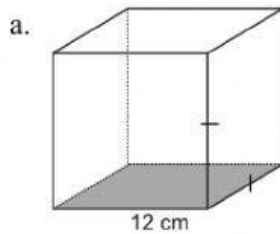
p = panjang

l = lebar

t = tinggi

Contoh Soal :

Tentukan luas permukaan bangun berikut ini :



Jawab :

a. Rusuk = S = 12 cm

$$\text{Luas Permukaan Bangun Kubus} = 6 \times S^2 = 6 \times S \times S$$

$$\text{Luas Permukaan Bangun Kubus} = 6 \times 12^2 \text{ cm}$$

$$\text{Luas Permukaan Bangun Kubus} = 6 \times 12 \text{ cm} \times 12 \text{ cm}$$

$$\text{Luas Permukaan Bangun Kubus} = 6 \times 144 \text{ cm}^2$$

$$\text{Luas Permukaan Bangun Kubus} = 864 \text{ cm}^2$$

b. Panjang (p) = 8 cm; lebar (l) = 4 cm; tinggi (t) = 6 cm

$$\text{Luas Permukaan Bangun balok} = (2 \times p \times l) + (2 \times p \times t) + (2 \times l \times t)$$

$$\text{Luas Permukaan Bangun balok} = (2 \times 8 \text{ cm} \times 4 \text{ cm}) + (2 \times 8 \text{ cm} \times 6 \text{ cm}) + (2 \times 4 \text{ cm} \times 6 \text{ cm})$$

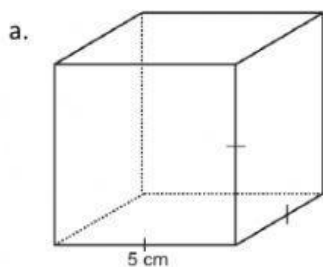
$$\text{Luas Permukaan Bangun balok} = (2 \times 32 \text{ cm}^2) + (2 \times 48 \text{ cm}^2) + (2 \times 24 \text{ cm}^2)$$

$$\text{Luas Permukaan Bangun balok} = 64 \text{ cm}^2 + 96 \text{ cm}^2 + 48 \text{ cm}^2$$

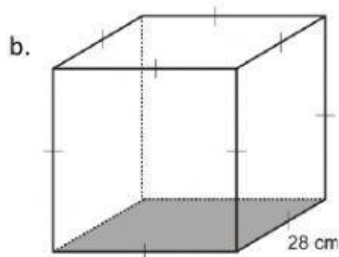
$$\text{Luas Permukaan Bangun balok} = 208 \text{ cm}^2$$

Latihan !

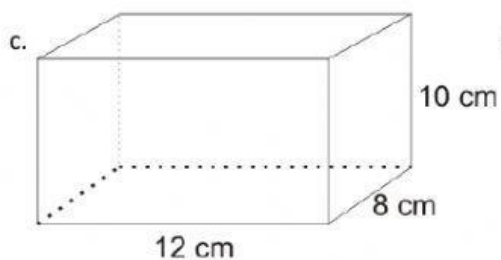
1. Tentukan Luas permukaan bangun di bawah ini !



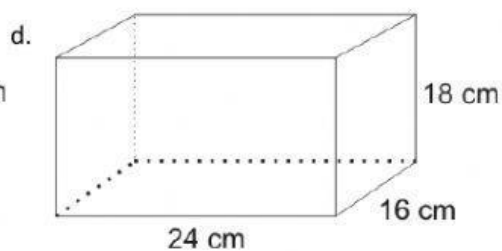
$$V = \dots \text{Cm}^2$$



$$V = \dots \text{Cm}^2$$



$$V = \dots \text{Cm}^2$$



$$V = \dots \text{Cm}^2$$

2. Lengkapilah tabel berikut !

S	Luas Permukaan
16 cm Cm ²
18 cm Cm ²
24 cm Cm ²

3. Lengkapilah tabel berikut !

p	l	t	Luas Permukaan
16 cm	15 cm	12 cm Cm ²
18 cm	12 cm	14 cm Cm ²
24 cm	18 cm	19 cm Cm ²