MATERI 1

BANGUN RUANG

VOLUME & LUAS PERMUKAAN

Bangun ruang adalah bangun tiga dimensi yang mempunyai volume atau isi. Volume tersebut dapat diketahui dengan rumus bangun ruang sesuai jenisnya.

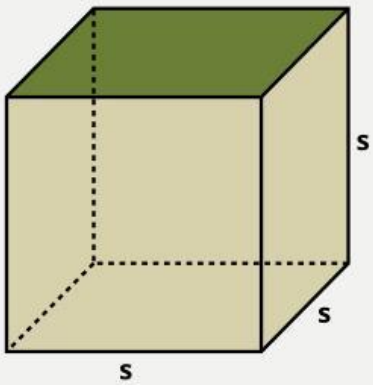
LIVEWORKSHEETS

MACAM-MACAM BANGUN RUANG

Kubus, Balok, Tabung,
Kerucut, Prisma, Limas, Bola

LIVEWORKSHEETS

KUBUS



RUMUS

Volume Kubus :

$V = s \times s \times s$

Luas Permukaan Kubus :

$L = 6 \times s \times s$

Catatan :

V = Volume
L = Luas permukaan
s = sisi

LIVEWORKSHEETS

BALOK

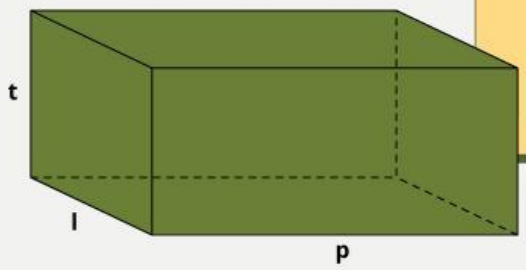
RUMUS

Volume Balok :

$V = p \times l \times t$

Luas Permukaan Balok:

$L = (2 \times p \times l) + (2 \times p \times t) + (2 \times l \times t)$



Catatan :
V = Volume
L = Luas permukaan
p = panjang
l = lebar
t = tinggi

LIVEWORKSHEETS

TABUNG

RUMUS

Volume Tabung :

V = Luas Alas x Tinggi

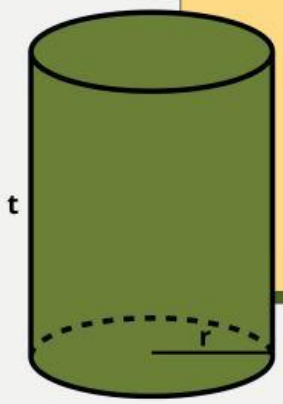
$V = \pi \times r \times r \times t$

Luas tabung = Luas alas + Luas tutup + Luas selimut tabung

Luas alas = $\pi \times r^2$

Luas tutup = $\pi \times r^2$

Luas selimut tabung = $2 \times \pi \times r \times t$



Catatan :
- V = Volume
- π = 22/7 atau 3,14
- r = jari-jari
- t = tinggi

LIVEWORKSHEETS

KERUCUT

RUMUS

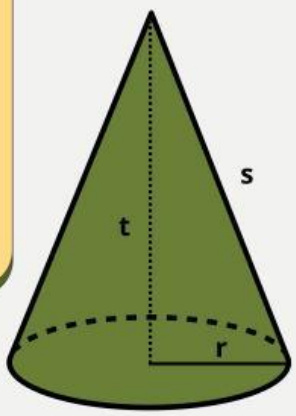
Volume Kerucut :

$$V = \frac{1}{3} \times \pi \times r^2 \times t$$

Luas Kerucut = luas selimut kerucut + luas alas kerucut

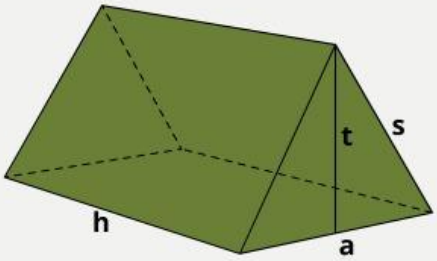
$$L = (\pi \times r \times s) + (\pi \times r^2)$$

Catatan :
- V = Volume
- π = 22/7 atau 3,14
- r = jari-jari
- t = tinggi
- s = garis pelukis kerucut



LIVEWORKSHEETS

PRISMA SEGITIGA



RUMUS

Volume Prisma Segitiga :

V = (½ x alas segitiga x tinggi segitiga) x tinggi prisma

V = (½ x a x t) x h

Luas Permukaan Prisma :

L = 2 × (1/2 × a × t) + keliling segitiga × tinggi

Catatan :
V = Volume
L = Luas permukaan
a = alas
t = tinggi segitiga
s = sisi miring
h = tinggi prisma

LIVEWORKSHEETS

LIMAS

RUMUS

Volume Limas :

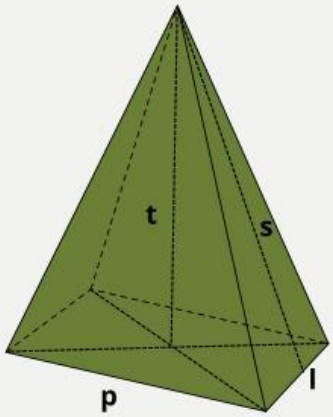
V = 1/3 x luas alas x tinggi

V = 1/3 x p x l x t

Luas Permukaan Limas :

L = Luas Alas + (Jumlah Sisi x Luas Sisi)

L = p x l + (4 x 1/2 x l x s)

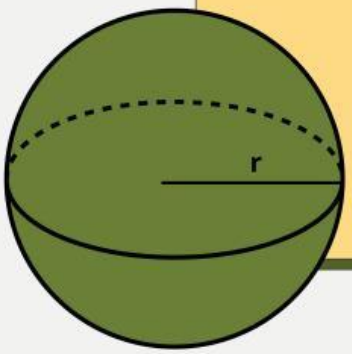


Catatan :
V = Volume
L = Luas permukaan
p = panjang
l = lebar
t = tinggi
s = tinggi segitiga

LIVEWORKSHEETS

BOLA

RUMUS



Volume Bola :

$V = 4/3 \times \pi \times r^3$

Luas Permukaan Bola

4 x Luas Lingkaran ($\pi \times r^2$) atau $S = 4 \times \pi \times r^2$

Catatan :
V = Volume
π = 22/7 atau 3,14
r = jari-jari

LIVEWORKSHEETS

MATERI 2

LIVEWORKSHEETS

MATERI 3

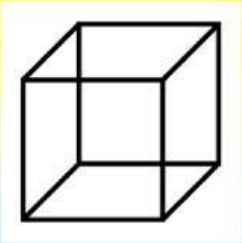
LIVEWORKSHEETS

MATERI 4

LIVEWORKSHEETS

Soal – soal

1. **Soal 1:** !



Kubus Bangun ruang di atas adalah…

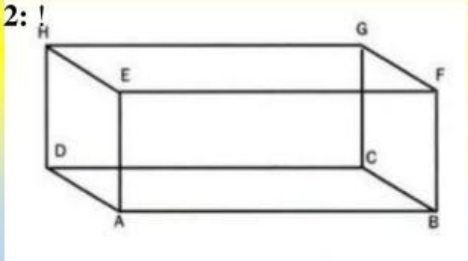
a. Balok

b. Kubus

c. Prisma

d. Limas

2. **Soal 2:** !



Balok Bangun ruang di atas memiliki berapa rusuk?

a. 8

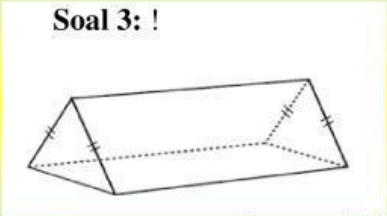
b. 10

c. 12

d. 14

LIVEWORKSHEETS

Soal 3: !



Bangun ruang di atas adalah…

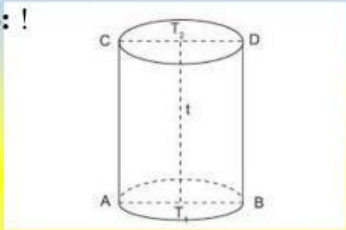
a. Prisma segitiga

b. Limas segitiga

c. Tabung

d. Kerucut

Soal 4: !



Tabung Bangun ruang di atas memiliki berapa sisi?

a. 2

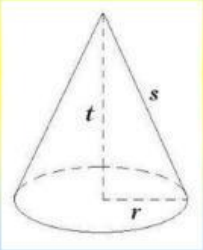
b. 3

c. 4

d. 5

LIVEWORKSHEETS

Soal 5: !



Bangun ruang di atas memiliki berapa titik sudut?

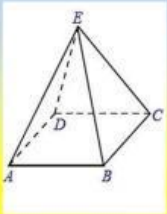
a. 0

b. 1

c. 2

d. 3

Soal 6: !



Bangun ruang di atas adalah…

a. Limas segitiga

b. Limas segiempat

c. Prisma segitiga

d. Prisma segiempat

LIVEWORKSHEETS