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

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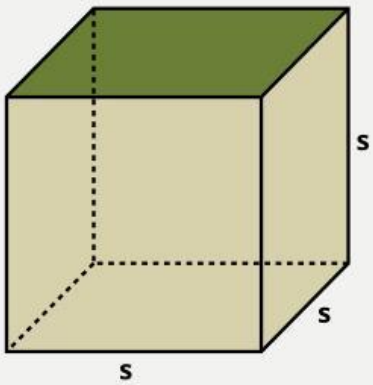
# KUBUS




## 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

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# BALOK

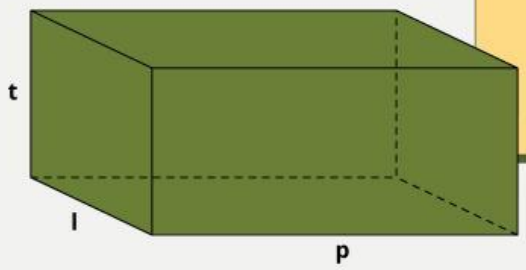
## RUMUS

**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

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# TABUNG

## RUMUS

**Volume Tabung :**

**V = Luas Alas x Tinggi**

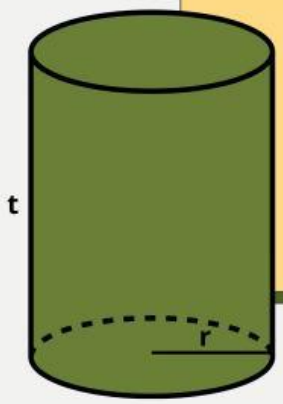
**$V = \pi \times r \times r \times t$**

**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
- $\pi$ = 22/7 atau 3,14
- r = jari-jari
- t = tinggi

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# KERUCUT

## RUMUS

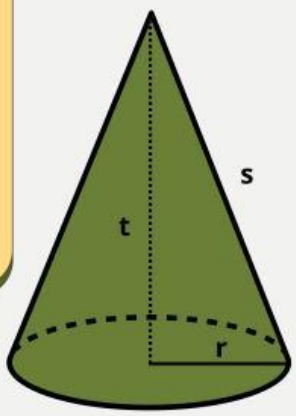
**Volume Kerucut :**

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

**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

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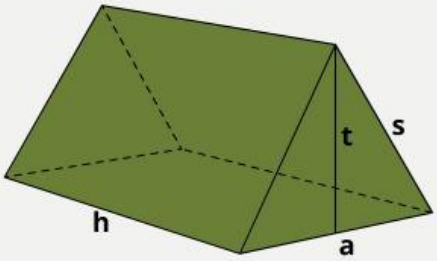
# PRISMA SEGITIGA




## 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

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# LIMAS

## RUMUS

**Volume Limas :**

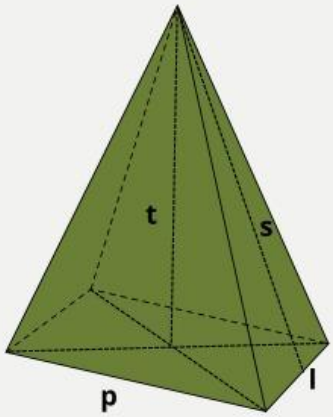
V = 1/3 x luas alas x tinggi

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

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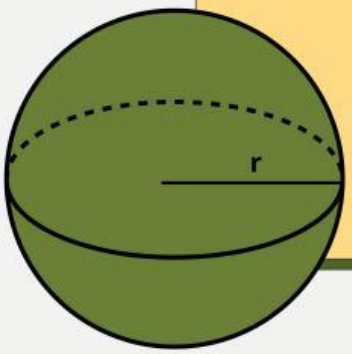
# BOLA

## 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
$\pi$ = 22/7 atau 3,14
r = jari-jari

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# MATERI 2

LIVEWORKSHEETS

# MATERI 3

LIVEWORKSHEETS

# MATERI 4

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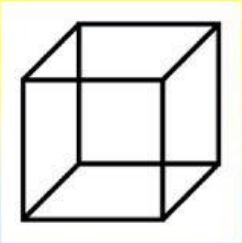
## Soal – soal

1. **Soal 1:** !



Kubus Bangun ruang di atas adalah…

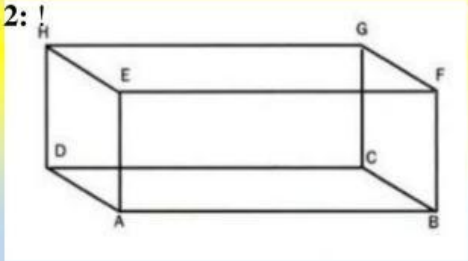
a. Balok

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

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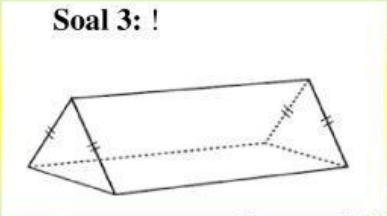
**Soal 3:** !



Bangun ruang di atas adalah…

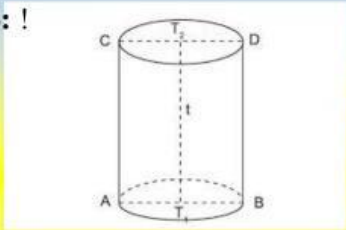
a. Prisma segitiga

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

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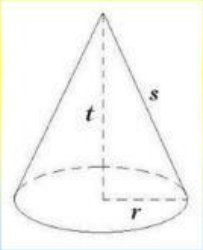
**Soal 5:** !




Bangun ruang di atas memiliki berapa titik sudut?

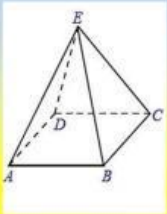
a. 0

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

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