

PRAKTIS TIMSS/PISA



Bentuk Piawai Standard Form

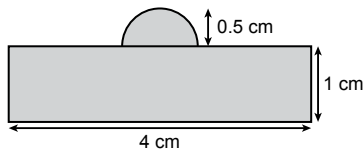
1. $4.2 \times 10^3 = 4\ 200$

Jawapan/ Answer: **C**



Lukisan Berskala Scale Drawings

1. Ukur saiz pelan kolam renang itu.
Measure the size of the swimming pool plan.



1 cm mewakili / represents 3 m

4 cm mewakili / represents $(4 \times 3) \text{ m} = 12 \text{ m}$

0.5 cm mewakili / represents $(0.5 \times 3) \text{ m} = 1.5 \text{ m}$

Luas sebenar segi empat tepat

Actual area of the rectangle

$$= 12 \times 3$$

$$= 36 \text{ m}^2$$

Luas sebenar semibulatan

Actual area of the semicircle

$$= \frac{1}{2} \times \frac{22}{7} \times 1.5^2$$

$$= 3.54 \text{ m}^2$$

Jumlah luas sebenar / *Actual total area*

$$= 36 + 3.54$$

$$= 39.54 \text{ m}^2$$

2. (a) Panjang pentas / *Length of the stage* = 6 m
Lebar pentas / *Width of the stage* = 3 m

Panjang kain renda yang diperlukan

Length of the lace fabric required

$$= 3 + 6 + 3$$

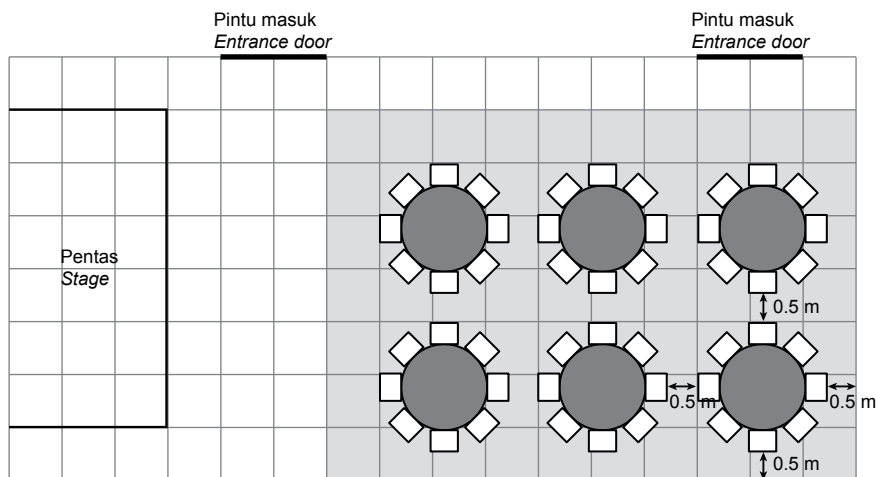
$$= 12 \text{ m}$$

(b) Panjang dewan / *Length of the hall* = 16 m

Lebar dewan / *Width of the hall* = 8 m

$$\begin{aligned}\text{Jumlah luas} &= \text{luas dewan} - \text{luas pentas} \\ \text{Total area} &= \text{area of the hall} - \text{area of the stage} \\ &= (16 \times 8) - (6 \times 3) \\ &= 128 - 18 \\ &= 110 \text{ m}^2\end{aligned}$$

(c)



Maka, bilangan set maksimum yang boleh diletakkan ialah 6.

Hence, the maximum number of sets that can be placed is 6.

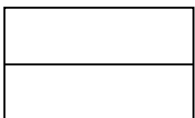


Pelan dan Dongakan

Plans and Elevations

1. A

2.

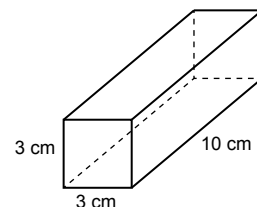


3. (a) C

(b) Isi padu yang dikeluarkan bagi lubang berbentuk kuboid

Volume removed upon drilling of a rectangular hole

$$\begin{aligned}&= 3 \times 3 \times 10 \\ &= 90 \text{ cm}^3\end{aligned}$$



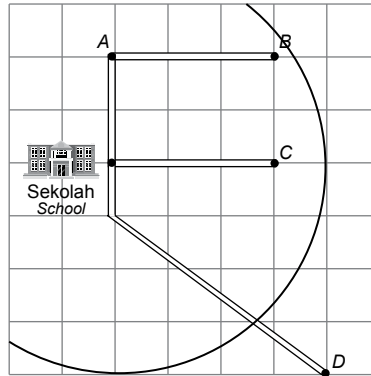
4. Bilangan bintang yang dapat dilihat

Number of dots that can be seen

$$\begin{aligned}&= 1 + 2 + 6 + 4 + 3 \\ &= 16\end{aligned}$$

Daripada rajah, jarak di antara sekolah dan pekan A = 2 unit
From the diagram, the distance between the school and the town A = 2 units

2 unit mewakili 10 km, maka 1 unit mewakili 5 km. Jadi, 20 km diwakili oleh 4 unit.
2 units represents 10 km, hence 1 unit represents 5 km. So, 20 km is represented by 4 units.



	Pekan A <i>Town A</i>	Pekan B <i>Town B</i>	Pekan C <i>Town C</i>	Pekan D <i>Town D</i>
Memenuhi syarat sejauh 20 km atau kurang <i>Meets condition of 20 km or less</i>	Ya Yes	Ya Yes	Ya Yes	Tidak No

$$\begin{aligned}
 1. \quad m &= \frac{6-3}{-2-1} \\
 &= \frac{3}{-3} \\
 &= -1
 \end{aligned}$$

Pada/ At (1, 3), $3 = -1(1) + c$
 $c = 4$

Persamaan/ Equation: $y = -x + 4$

Pada/ At (5, -1), $-1 = -5 + 4$

Jawapan/ Answer: **C**

2. Pada/ At (1, 3), $3 = 2(1) + 1$

Jawapan/ Answer: **B**

$$\begin{aligned}
 3. \quad m &= \frac{9-3}{5-2} \\
 &= \frac{6}{3} \\
 &= 2
 \end{aligned}$$

Pada/ At (2, 3), $3 = 2(2) + c$
 $c = -1$

Persamaan/ Equation: $y = 2x - 1$

Jawapan/ Answer: **B**