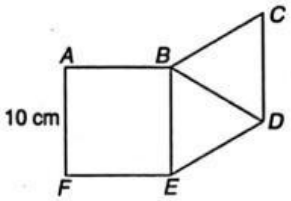
BAB 10 Perimeter dan Luas
Perimeter and Area

Bahagian A / *Section A*

10.1 Perimeter
Perimeter

1 Rajah 1 terdiri daripada sebuah segi empat sama *ABEF* dan dua buah segi tiga sama sisi *BDE* dan *BCD*.
Rajah 1 consists of a square ABEF and two equilateral triangles BDE and BCD.

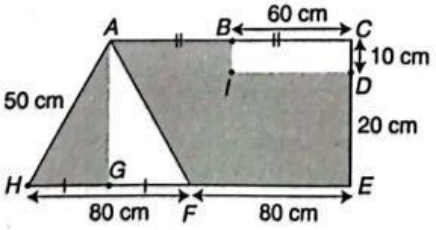


Rajah 1 / *Diagram 1*

Tentukan perimeter, dalam cm, seluruh rajah.
Determine the perimeter, in cm, of the whole diagram.

A 10
B 60
C 70
D 80

2 Rajah 2 menunjukkan sebidang tanah yang dijadikan taman bunga. Kawasan yang berlorek ditanam dengan rumput hijau dan dikelilingi pagar.
Diagram 2 shows a piece of land used as a garden. The shaded area is planted with green grass and surrounded by a fence.

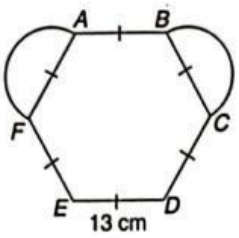


Rajah 2 / *Diagram 2*

Berapakah perimeter, dalam cm, kawasan yang berpagar itu?
What is the perimeter, in cm, of the fenced area?

A 350
B 400
C 450
D 460

3 Diberi bahawa perimeter seluruh Rajah 3 ialah 92 cm. Panjang lengkung *AF* sama dengan panjang lengkung *BC*.
It is given that the perimeter of whole of Diagram 3 is 92 cm. Length of arc AF is the same as the length of arc BC.



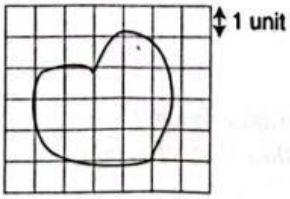
Rajah 3 / *Diagram 3*

Hitung panjang, dalam cm, garis lengkung *BC*.
KBAT-Mengaplikasi
Calculate the length, in cm, of arc BC.

A 14
B 15
C 20
D 28

10.2 Luas Segi Tiga, Segi Empat Selari, Lelayang dan Trapezium
Areas of Triangles, Paralellograms, Kites and Trapeziums

4 Rajah 4 dilukis pada grid segi empat sama bersisi 1 unit.
Diagram 4 is drawn on a grid of equal squares with sides of 1 unit.



Rajah 4/ *Diagram 4*

Anggarkan luas rajah itu.
Estimate the area of the diagram.

A 10 unit²
B 12 unit²
C 14 unit²
D 16 unit²

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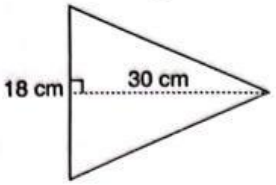
5 Rajah 5 menunjukkan sebuah segi tiga.
Diagram 5 shows a triangle.

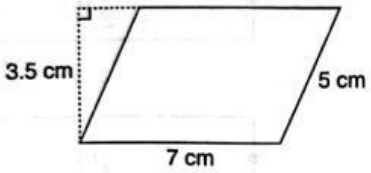


Rajah 5 / *Diagram 5*

Hitung luas, dalam cm², segi tiga itu.
Calculate the area, in cm², of the triangle.

A 135
B 150
C 270
D 540

6 Rajah 6 menunjukkan sebuah segi empat selari.
Diagram 6 shows a parallelogram.

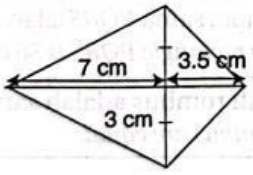


Rajah 6 / *Diagram 6*

Hitung luas, dalam cm², segi empat selari itu.
Calculate the area, in cm², of the parallelogram.

A 35.0 **C** 17.5
B 24.5 **D** 12.3

7 Rajah 7 menunjukkan sebuah lelayang.
Diagram 7 shows a kite.

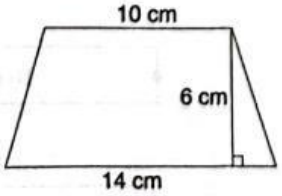


Rajah 7 / *Diagram 7*

Hitung luas, dalam cm², lelayang itu.
Calculate the area, in cm², of the kite.

A 21.0 **C** 31.5
B 24.5 **D** 63.0

8 Rajah 8 menunjukkan sebuah trapezium.
Diagram 8 shows a trapezium.



Rajah 8 / *Diagram 8*

Hitung luas, dalam cm², trapezium itu.
Calculate the area, in cm², of the trapezium.

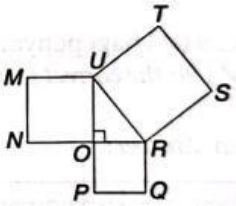
A 84
B 72
C 60
D 42

10.3 Perkaitan antara Perimeter dan Luas
Relationship between Perimeter and Area

9 Sebuah dewan berbentuk segi empat tepat mempunyai perimeter 150 m. Lebar dewan itu ialah 30 m. Hitung luas, dalam m², dewan itu.
A rectangular hall has a perimeter of 150 m. The width of the hall is 30 m. Calculate the area, in m², of the hall.

A 1 300 **C** 2 025
B 1 350 **D** 4 500

10 Dalam Rajah 9, *OPQR*, *MNOU* dan *RSTU* ialah tiga buah segi empat sama yang masing-masing mempunyai luas 36 cm², 64 cm² dan 100 cm².
In Diagram 9, OPQR, MNOU and RSTU are three squares with areas of 36 cm², 64 cm² and 100 cm² respectively.



Rajah 9 / *Diagram 9*

Hitung perimeter, dalam cm², seluruh rajah itu.
Calculate the perimeter, in cm², of the whole diagram.

A 72
B 75
C 78
D 81

11 Diberi bahawa sebuah segi tiga sama kaki *PQR* dengan sisi $PQ = 2x - y$ dan $QR = 3y - x$. Jika $PQ = PR$, cari perimeter, dalam cm, segi tiga *PQR* itu.
It is given that an isosceles triangle PQR with sides $PQ = 2x - y$ and $QR = 3y - x$. If $PQ = PR$, find the perimeter, in cm, of the triangle PQR.

A $3y + 5x$
B $5y + 3x$
C $3x + 2y$
D $3x + y$

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