

PENILAIAN AKHIR TAHUN



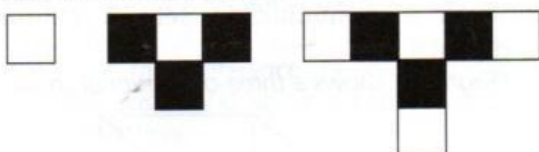
Bahagian A/ Section A

Jawab **semua** soalan./ Answer **all** questions.

[20 markah/ marks]

- 1 Rajah 1 menunjukkan satu corak.

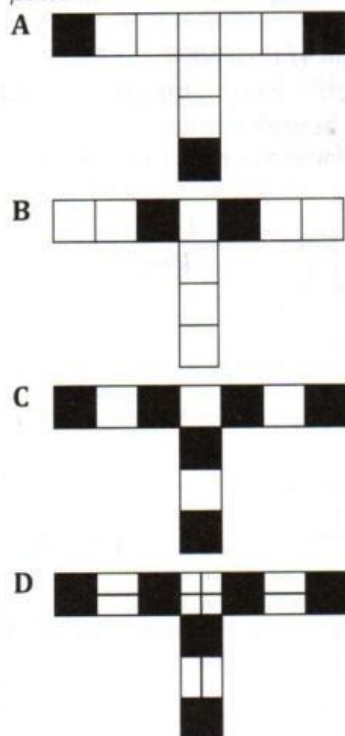
Diagram 1 shows a pattern.



Rajah 1/ Diagram 1

Berdasarkan polanya, tentukan corak yang keempat.

Based on its sequence, determine the fourth pattern.



- 2 Diberi $y = 2(x - 9) + z^2$. Jika $y = 17$ dan $x = 13$, hitungkan nilai z .

Given $y = 2(x - 9) + z^2$. If $y = 17$ and $x = 13$, calculate the value of z .

- A 3 C 12
B 9 D 24

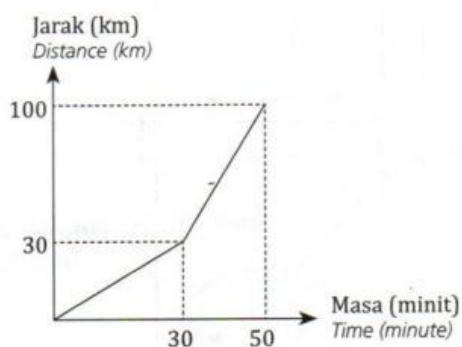
- 3 Kembangkan/ Expand:

$$(x - 2y)(2x + y)$$

- A $2x^2 + 2y^2 - 3xy$
B $2x^2 - 2y^2 - 3xy$
C $2x^2 + 2y^2 + 4xy$
D $2x^2 - 2y^2 - 4xy$

- 4 Graf berikut ialah sebuah graf jarak-masa bagi sebuah kereta.

The following graph is a distance-time graph of a car.



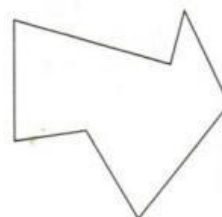
Hitungkan laju purata, dalam m/min, kereta itu.

Calculate the average speed, in m/min, of the car.

- A 0.002
B 1 000
C 2 000
D 120 000

- 5 Rajah 2 menunjukkan sebuah poligon.

Diagram 2 shows a polygon.



Rajah 2/ Diagram 2

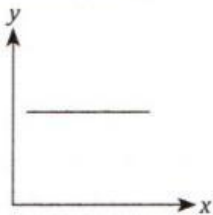
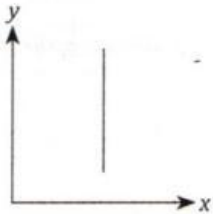
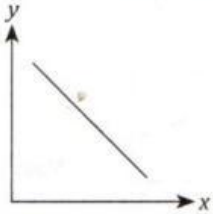
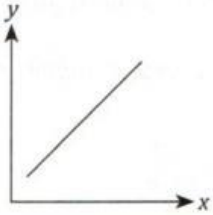
Cari jumlah sudut pedalaman bagi poligon di atas.

Find the total interior angle of the polygon above.

- A 360°
- B 540°
- C 720°
- D 900°

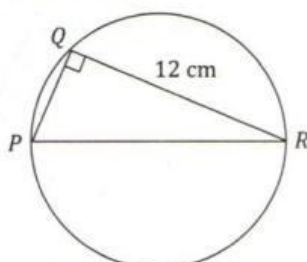
6 Antara berikut, yang manakah adalah betul?

Which of the following is correct?

	Graf garis lurus Straight line graph	Kecerunan Gradient
A		0
B		Positif Positive
C		Tidak tertakrif Undefined
D		Negatif Negative

7 Rajah 3 menunjukkan sebuah bulatan.

Diagram 3 shows a circle.



Rajah 3/ Diagram 3

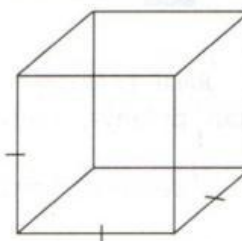
Diberi $QR = 12$ cm dan luas segi tiga PQR ialah 30 cm^2 . Hitungkan luas, dalam cm^2 , bulatan itu.
Given $QR = 12$ cm and the area of triangle PQR is 30 cm^2 . Calculate the area, in cm^2 , of the circle.

[Guna/ Use: $\pi = \frac{22}{7}$]

- A $78\frac{4}{7}$
- B $132\frac{11}{14}$
- C $452\frac{4}{7}$
- D $531\frac{1}{7}$

8 Rajah 4 menunjukkan sebuah bentuk tiga dimensi.

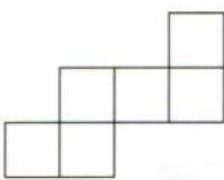
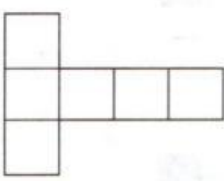
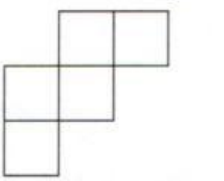
Diagram 4 shows a three-dimensional shape.



Rajah 4/ Diagram 4

Antara berikut, yang manakah **bukan** bentangan bagi bentuk di atas?

Which of the following is **not** a net of the shape above?

- A 
- B 
- C 
- D 