

Bahagian A
Section A

[20 markah/marks]

Jawab semua soalan.

Answer all questions.

- 1 Antara berikut, yang manakah bukan faktor bagi $6pq^2$?

Which of the following is not the factor of $6pq^2$?

- A $6pq^2$
B pq^2
C q^2
D $4pq^2$

- 2 Diberi suatu urutan nombor 5, 9, 13, x, y, 25, ... Cari nilai bagi $y - x$.

Given a sequence of number 5, 9, 13, x, y, 25, ... Find the value of $y - x$.

- A 4
B 5
C 6
D 7

- 3 Antara berikut, yang manakah menunjukkan y sebagai perkara rumus?

Which of the following shows y as the subject formulae?

- A $y = p^2 - py$
B $y = p^2 - px$
C $y^2 = m - px$
D $5y = p^2 - px$

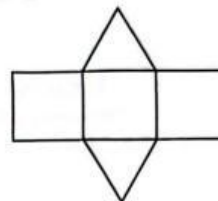
- 4 Harga bagi sebiji tembikai ialah $RM3x + 7$ dan harga bagi sebiji betik ialah $RM4y$. Antara berikut, yang manakah menunjukkan satu ungkapan harga bagi sebiji tembikai dan dua biji betik?

The price of one watermelon is $RM3x + 7$ and the price one papaya are $RM4y$. Which of the following expressions shows the price of one watermelon and two papayas?

- A $3x + 4y + 7$
B $6x + 4y + 14$
C $3x + 4y + 14$
D $3x + 8y + 7$

- 5 Rajah 1 menunjukkan bentangan bagi sebuah pepejal.

Diagram 1 shows the net of a solid.



Rajah 1
Diagram 1

Namakan pepejal tersebut.

Name the solid.

- A Piramid
Pyramid
B Prisma
Prism
C Kon
Cone
D Trapezium
Trapezium

- 6 Jadual 1 menunjukkan waktu perjalanan bas ekspres dari Ipoh ke Kuala Lumpur.

Table 1 shows the timetable for an express bus that travels from Ipoh to Kuala Lumpur.

Bas/Bus	Waktu/Time
Pertama/First	10 : 30 a.m.
Kedua/Second	11 : 45 a.m.
Ketiga/Third	1 : 00 p.m.
Keempat/Forth	2 : 15 p.m.
Kelima/Fifth	

Jadual 1
Table 1

Jika pola di atas diteruskan, nyatakan waktu perjalanan bagi bas kelima?

If the pattern above follows, state the travelling time of the fifth bus?

- A 3 : 00 p.m. C 3 : 30 p.m.
B 3 : 15 p.m. D 3 : 45 p.m.

- 7 Antara berikut, padanan yang manakah adalah betul?
Which of the following matches correctly?

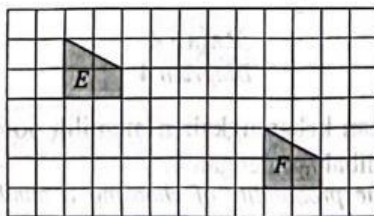
	Poligon sekata <i>Regular polygon</i>	Jumlah sudut pedalaman <i>Total of interior angles</i>
A	Heksagon <i>Hexagon</i>	740°
B	Heptagon <i>Heptagon</i>	840°
C	Oktagon <i>Octagon</i>	1 080°
D	Nonagon <i>Nonagon</i>	1 400°

- 8 Berikut menunjukkan maklumat sebuah poligon.
The following shows information of a polygon.

- Mempunyai tiga paksi simetri
Has three axis of symmetry
- Tiada pepenjuru
Has no diagonals

Apakah poligon itu?
What is the polygon?

- A Segi tiga sama sisi
Equilateral triangle
- B Segi tiga tak sama sisi
Scalene triangle
- C Trapezium
Trapezium
- D Rombus
Rhombus
- 9 Rajah 2 menunjukkan sisi empat F ialah imej bagi sisi empat E di bawah satu translasi.
Diagram 2 shows quadrilateral F is the image of quadrilateral E under a translation.



Rajah 2
Diagram 2

Nyatakan vektor translasi tersebut.
State the translation vector.

- A $\begin{pmatrix} 7 \\ 3 \end{pmatrix}$ C $\begin{pmatrix} 7 \\ -3 \end{pmatrix}$
- B $\begin{pmatrix} -7 \\ 3 \end{pmatrix}$ D $\begin{pmatrix} -7 \\ -3 \end{pmatrix}$

- 10 Nyatakan nilai ekstrem bagi data berikut.
State the extreme value for the following data.

75, 69, 72, 41, 75, 72, 80, 75, 81, 75

- A 81
B 75
C 69
D 41

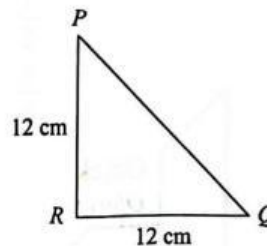
- 11 Sebuah kereta bergerak dengan kelajuan 80 km/j selama 2 jam. Kira jumlah jarak, dalam km, yang dilalui oleh kereta tersebut

A car moves with a speed of 80 km/h for 2 hours. Calculate the total distance, in km, that the car travelled.

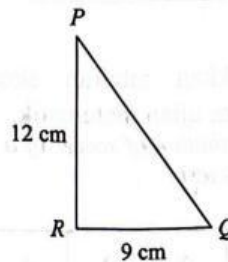
- A 160 C 40
B 80 D 20

- 12 Antara berikut, garis PQ yang manakah mempunyai nilai kecerunan yang tertinggi?
Which of the following line PQ has the highest gradient?

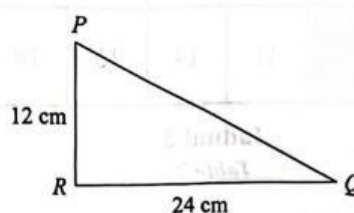
A



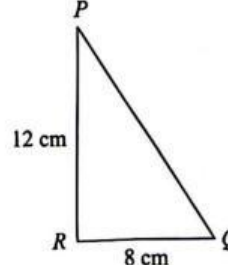
B



C



D



[Lihat halaman sebelah]

- 13 Antara rajah berikut, yang manakah bukan transformasi isometri?
Which of the following diagram is not an isometric transformation?

A



B



C



D



- 14 Jadual 2 menunjukkan taburan skor yang diperoleh murid dalam ujian matematik.
Table 2 shows the distribution of scores of a group of pupils in a Mathematics test.

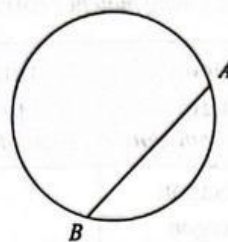
Skor Score	1	2	3	4	5
Kekerapan Frequency	11	14	15	18	10

Jadual 2
Table 2

Nyatakan mod.
State the mode.

- A 2
B 3
C 4
D 5

- 15 Rajah 3 menunjukkan sebuah bulatan.
Diagram 3 shows a circle.



Rajah 3
Diagram 3

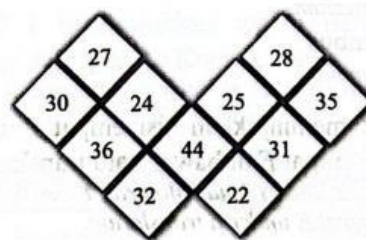
Bahagian yang dilabel AB ialah
The part labelled as AB is a

- A perentas
chord
B jejari
radius
C diameter
diameter
D lengkok
arc

- 16 Hitung jarak di antara titik $P(7, 1)$ dengan titik $Q(7, 8)$.
Calculate the distance between point $P(7, 1)$ and point $Q(7, 8)$.

- A 6 unit/units
B 7 unit/units
C 8 unit/units
D 9 unit/units

- 17 Rajah 4 menunjukkan beberapa keping kad nombor. Satu kad dipilih secara rawak.
Diagram 4 shows a few pieces of number cards. One card is selected at random.



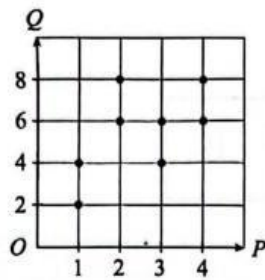
Rajah 4
Diagram 4

Nyatakan kebarangkalian memilih nombor yang boleh dibahagi dengan 4.

State the probability of choosing a number that is divisible by 4.

- A $\frac{3}{11}$
B $\frac{5}{11}$
C $\frac{7}{11}$
D $\frac{9}{11}$

- 18 Rajah 5 menunjukkan satu graf.
Diagram 5 shows a graph.



Rajah 5
Diagram 5

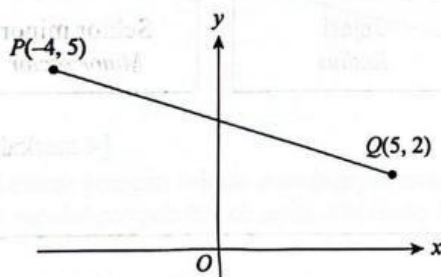
Nyatakan jenis hubungan yang diwakili oleh graf di atas.

State the relation represented by the graph above.

- A Hubungan satu kepada satu
One to one relation
- B Hubungan satu kepada banyak
One to many relation
- C Hubungan banyak kepada satu
Many to one relation
- D Hubungan banyak kepada banyak
Many to many relation

- 19 Rajah 6 menunjukkan garis lurus PQ pada suatu satah Cartes.

Diagram 6 shows a straight line PQ on a Cartesian plane.



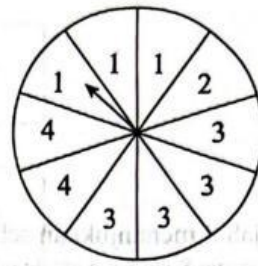
Rajah 6
Diagram 6

Cari kecerunan PQ .

Find the gradient of PQ .

- A 3
- B $\frac{1}{3}$
- C $-\frac{1}{3}$
- D -3

- 20 Rajah 7 menunjukkan sebuah roda pemutar.
Diagram 7 shows a wheel spinner.



Rajah 7
Diagram 7

Nyatakan kebarangkalian mendapat nombor genap apabila roda pemutar ini diputar.

State the probability of obtaining an even number when the wheel spinner is spun.

- A $\frac{3}{10}$
- B $\frac{1}{2}$
- C $\frac{1}{2}$
- D $\frac{3}{4}$