

BAHAGIAN A

[20 markah]

[20 marks]

Jawab semua soalan.

Answer all questions.

- 1 Susunan manakah yang mengikut tertib menaik?
Circle the answer with the correct steps of calculation.
- A $-8, -5, -1, 0, 2, 6$
B $-9, -6, -3, 0, 7, 4$
C $-10, 9, 8, 4, -3, 1$
D $-12, -10, 5, -6, 8, 0$
- 2 Bulatkan jawapan bagi langkah pengiraan yang betul.
Circle the answer with the correct steps of calculation.
- $-12 \times (-5 + 7)$
- A -144
B -72
C -48
D -24
- 3 Antara yang berikut, yang manakah ialah factor bagi 25?
Which of the following is a factor of 25?
- A 2
B 5
C 8
D 20
- 4 Antara berikut yang manakah gandaan bagi 18?
Which of the following is a multiple of 18?
- A 32
B 52
C 64
D 72

- 5 Antara nombor berikut, yang manakah boleh dibahagikan dengan 4, 8 dan 10?
Which of the following numbers can be divided by 4, 8 and 10?

A 300
B 400
C 540
D 620

- 6 Hitung nilai bagi
Calculate the value of

$$\sqrt{196} + \sqrt{18} \times \sqrt{8}$$

A 24
B 26
C 30
D 32

- 7 Rajah berikut menunjukkan sebuah segi empat sama.
The following diagram shows a square.



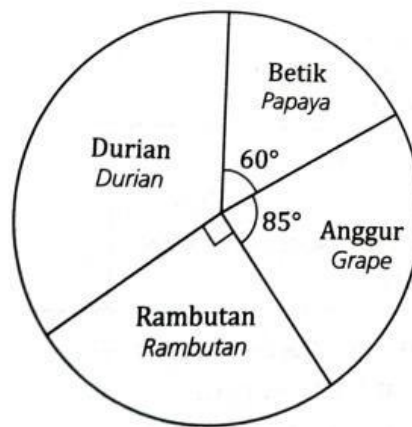
Jika luas segi empat sama ialah 81 cm^2 , hitung perimeternya dalam cm.
If the area of the square is 81 cm^2 , calculate its perimeter, in cm.

A 36
B 40
C 44
D 48

- 8 Diberi $\sqrt{p} = 13$, cari nilai p .
Given that $\sqrt{p} = 13$, find the value of p .

A 26
B 62
C 169
D 196

- 9 Carta pai berikut menunjukkan jualan buah-buahan di sebuah gerai.
The following pie chart shows the sales of fruits in a stall.



Hitung peratusan durian daripada semua buah-buahan yang dijual.
Calculate the percentage of durians out of all the fruits sold.

- A 65.3%
B 34.7%
C 22.5%
D 18.6%
- 10 Luas sekeping kadbod berbentuk segi empat sama ialah 702.25 cm^2 . Berapakah bilangan segi empat sama yang panjangnya berukuran 5 cm.
The area of a square cardboard is 702.25 cm^2 . What is the number of squares with the length of 5 cm can be cut from the cardboard?
- A 13
B 25
C 28
D 42

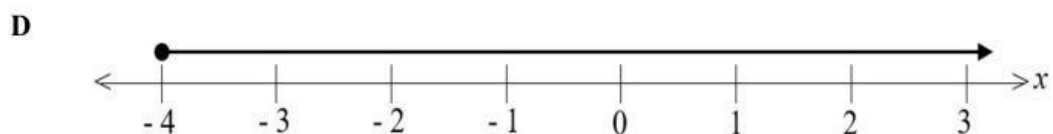
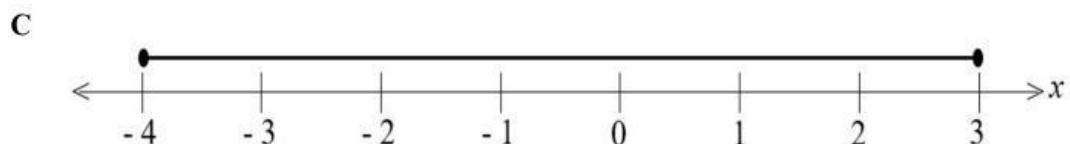
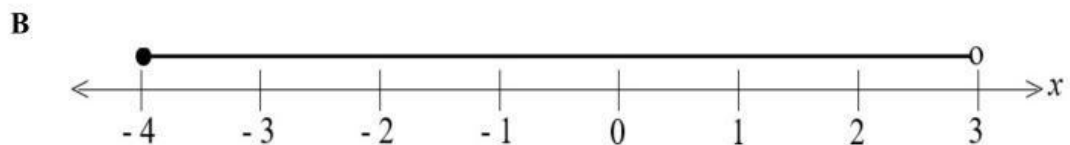
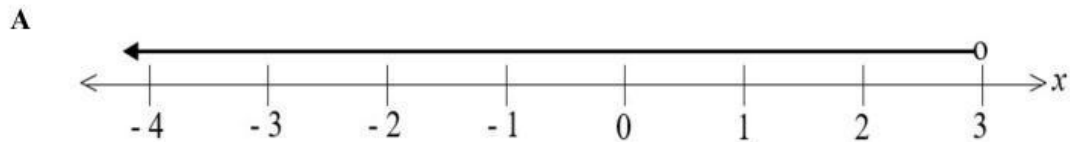
11. Umur Nadine, Rina dan Zayyan adalah dalam nisbah 3 : 5 : 4 dan jumlah umur mereka ialah 156 tahun. Berapakah umur Zayyan?
The ages of Nadine, Rina and Zayyan are in the ratio of 3 : 5 : 4 and the sum of their ages is 156 years. How old is Zayyan?

A 25
 B 39
 C 52
 D 65

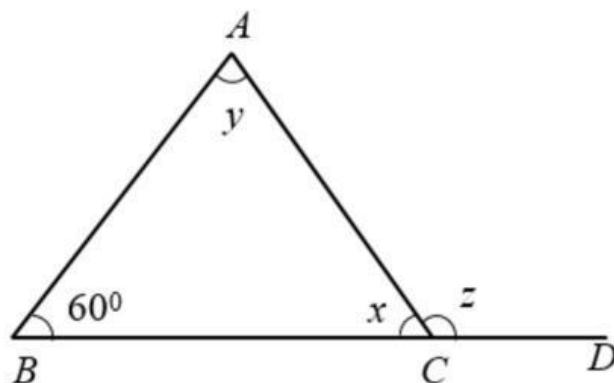
12. Antara berikut, yang manakah persamaan linear dalam satu pemboleh ubah?
Which of the following is a linear equation in one variable?

A $6p + 4q = 9$
 B $3m + 1 = 6m$
 C $3a + a^2 = 1$
 D $\frac{1}{x} + 2 = 6$

13. Antara garis nombor yang berikut, manakah mewakili penyelesaian bagi $-2 \leq x + 2 < 5$?
Which of the following number lines represents the solution for $-2 \leq x + 2 < 5$?

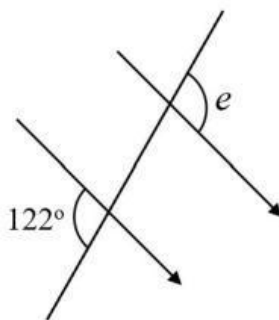


- 14 Dalam rajah di bawah, BCD ialah garis lurus.
In the figure below, the BCD is a straight line.



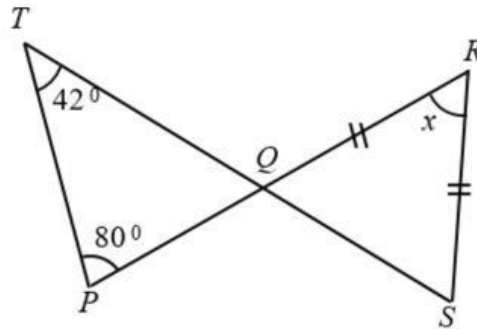
Antara berikut, yang manakah benar berdasarkan rajah di atas ?
Which of the following is true based on the diagram above?

- A $y = 60^\circ$
 - B $z = 60^\circ + y$
 - C $60^\circ + y + x = z$
 - D $60^\circ + y = x + z$
15. Berdasarkan rajah di bawah, hitung nilai e .
Based on the diagram below, calculate the value of e .



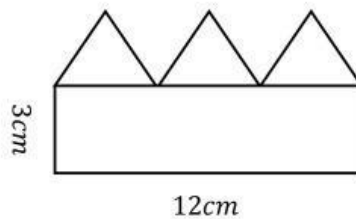
- A 58°
- B 90°
- C 122°
- D 138°

16. Dalam rajah di bawah, PQR dan SQT adalah dua garis lurus.
In the diagram below, PQR and SQT are two straight lines.



Cari nilai x .
Find the value of x .

- A 52°
 B 58°
 C 64°
 D 67°
17. Rajah di bawah terdiri daripada 3 buah segi tiga sama sisi dan sebuah segi empat tepat.
Diagram below consists of 3 equilateral triangles and a rectangle.

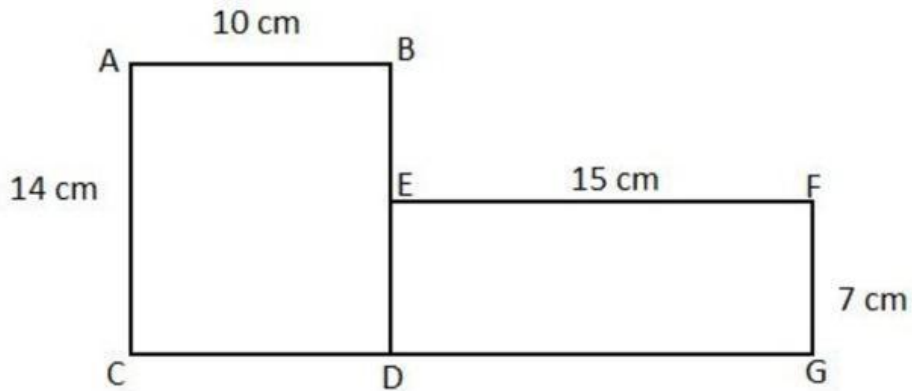


Cari perimeter, dalam cm, rajah berikut
Find the perimeter, in cm, of the diagram

- A 27
 B 30
 C 40
 D 42

18. Rajah di bawah menunjukkan gabungan dua buah segi empat tepat, ABCD dan DEFG. E merupakan titik tengah garis BD.

The diagram below shows the combination of two rectangles, ABCD and DEFG. E is the midpoint of the line BD.



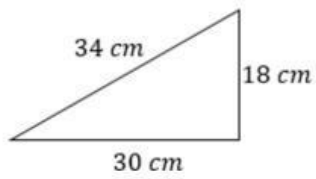
Cari perimeter, dalam cm, seluruh rajah itu.
Find the perimeter, in cm, of the whole diagram.

- A 46
 - B 71
 - C 78
 - D 85
- 19 Diberi set $Q = \{2, 3, 4\}$, cari nilai $n(Q)$.
Given set $Q = \{2, 3, 4\}$, find the value of $n(Q)$.

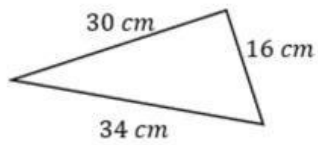
- A 2
- B 3
- C 4
- D 5

- 20 Antara berikut, yang manakah sebuah segi tiga bersudut tegak?
Which of the following is a right-angled triangle?

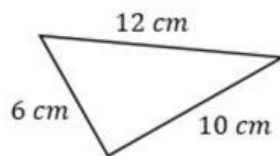
A



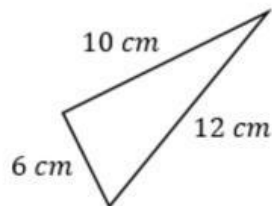
B



C



D



BAHAGIAN B

[20 markah]

[20 marks]

Jawab semua soalan.

Answer all questions

1(a) Bulatkan faktor perdana bagi 102

Circle the prime factor(s) of 102

Jawapan / Answer

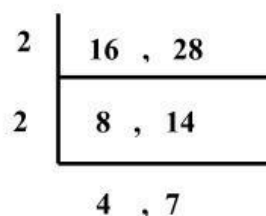
[1 2 6 17 34 51]

[2 markah]

[2 marks]

1(b) Rajah menunjukkan kaedah yang digunakan oleh Kai Lin untuk mencari factor sepunya Terbesar (FSTB) dan gandaan sepunya terkecil (GSTK) bagi 16 dan 28. Padankan jawapan yang betul.

Diagram shows the method used by Kai Lin to find the highest common factor (HCF) and the lowest common multiple (LCM) of 16 and 28. Match the correct answer.



Jawapan / Answer:

$2 \times 2 = 4$

GSTK / LCM

$2 \times 2 \times 4 \times 7 = 112$

FSTB / HCF

[2 markah]

[2 marks]

2 (a) Isi tempat kosong dengan nombor dan pemboleh ubah yang betul.

Fill in the blanks with the correct number and variable.

Jawapan / Answer

Sebutan <i>Term</i>	Nombor <i>Number</i>	Pemboleh ubah <i>Variable</i>
8p		

[2 markah]

[2 marks]

2 (b) Isikan tempat kosong dengan sebutan algebra yang betul.

Fill in the blanks with the correct algebraic terms.

$$8x^3y^5z, \quad 3m^2n, \quad 2mn^2, \quad 6x^2y^6z^2$$

i) $3mn \times \boxed{} = 6m^2n^3$

ii) $\boxed{} \div 4xy^2 = 2x^2y^3z$

[2 markah]

[2 marks]

3 (a) Lengkapkan setiap yang berikut dengan menggunakan simbol $\in$ atau $\notin$

Complete each of the following by using the symbol $\in$ atau $\notin$

M = {Nombor bulat}
M = {whole number}

Jawapan / Answer:

i) $-12 \boxed{} M$

ii) $0.7 \boxed{} M$

[2 markah]

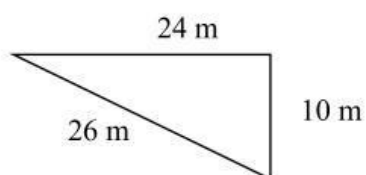
[2 marks]

3 (b) Pada ruang jawapan, tandakan (✓) jika segi tiga bersudut tegak dan (✕) jika bukan segi tiga bersudut tegak.

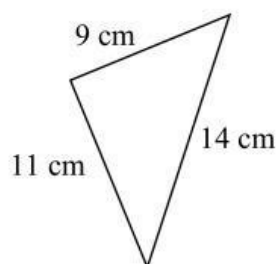
In the answer space, mark (✓) for a right-angled triangle and (✕) if it not a right-angled triangle.

Jawapan / Answer

i)



ii)



[2 markah]
[2 marks]

4(a) Bulatkan semua persamaan linear dalam satu pemboleh ubah.
Circle all the linear equation in one variable.

Jawapan / Answer

$7 - p = 2$	$r + 8s = 2$	$y + 4 = 0$	$2z = 18y$
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[2 markah]
[2 marks]

- 4 (b) Bulatkan semua persamaan linear dalam dua pemboleh ubah.

Circle all the linear equation in two variable.

Jawapan/Answer

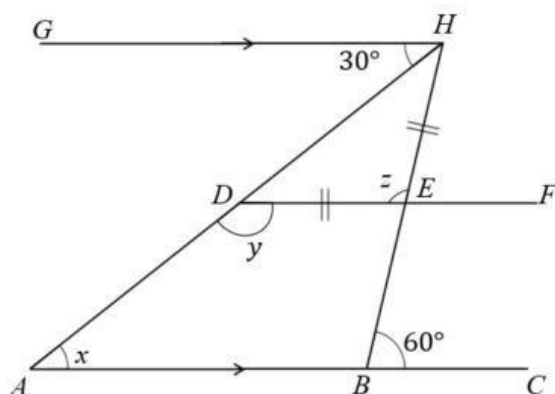
$5a + 3b = 8$	$\frac{2a + 3}{5b} = \frac{a}{8}$	$2(m + 3n) = \frac{5m}{4}$	$2z + 4 = 18$
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[2 markah]

[2 marks]

- 5 Dalam rajah di bawah, ABC , DEF , GH , ADH dan BEH ialah garis lurus.

In diagram below shows ABC , DEF , GH , ADH and BEH are straight lines.



Berdasarkan sudut yang diberi, tulis nilai x , y , z dan $x + y + z$.

Based on the given angles, write the values of x , y , z and $x + y + z$.

30°	60°	120°	150°	210°	300°
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Jawapan/ Answer:

$x =$ _____

$y =$ _____

$z =$ _____

$x + y + z =$ _____

[4 markah / 4 marks]