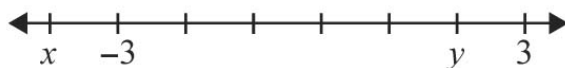


SECTION A/ BAHAGIAN A(20 MARKS/MARKAH)

1. Arrange in ascending order.

- A. B.
D.

2. Diagram shows a number line.



Find the value of x and y ?

- A. $x = -4; y = 1$ B. $x = -4; y = 2$
C. $x = -2; y = 1$ D. $x = -2; y = 2$
3. Table shows the number of students in three form 1 classes.

Form <i>Tingkatan</i>	1 Amanah	1 Barakah	1 Fathanah
Number of Students <i>Bilangan Murid</i>	30	35	15

Which of the following is the ratio of the number of students in 1 Amanah to 1 Barakah to 1 Fathanah?

- A. 6 : 7 : 3 B. 3 : 6 : 7
C. 15 : 30 : 35 D. 30 : 15 : 35
4. Determine the prime factors of 42.
- A. 1, 3, 7 B. 1, 3, 21
C. 2, 3, 7 D. 2, 3, 7, 21

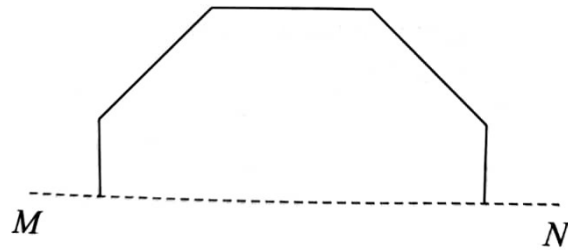
5. Which of the following is equivalent to the term $3k^2mn$?

- A. $3k^2 + mn$ B. $3k^2 \times mn$
C. $-3k^2 \times mn$ D. $3k^2 - mn$

6. Given $\frac{x+8}{2} = 9$, find the value of x .

- A. 2 B. 3
C. 10 D. 26

7. Diagram shows a part of a regular polygon with MN as its axis of symmetry.



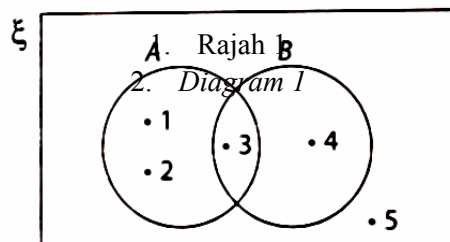
State the name of the above polygon.

- A. Pentagon B. Hexagon
 C. Heptagon D. Octagon
8. Calculate the distance between the point $A(2, -1)$ and $B(5, -5)$.
- A. 5 B. 7
 C. 10. D. 13
9. Table shows the number of ferry passengers at Pulau Pangkor jetty in March. Calculate the median.

Number of passengers <i>Bilangan penumpang</i>	10	20	30	40
Frequency <i>Kekerapan</i>	5	8	7	10

- A.20 B. 25
 C. 30 D. 35
10. Expand $4(x-5)$
- A. $x - 5$ B. $4x - 1$
 C. $4x - 1$ D. $4x - 20$
11. Describe the patterns of the number sequence of 15, 28, 41, 54 and 67.
- A.Begin with 15 and add 3 to each term.
 B.Begin with 15 and add 13 to each term.
 C.Begin with 15 and add 15 to each term.
 D.Begin with 13 and add 15 to each term.

12. Diagram shows a Venn diagram.



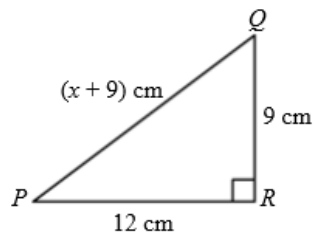
List the elements for A'.

- A. 3, 4 B. 5
C. 3, 4, 5 D. 4, 5

13. Round off 0.004055 to 3 significant figures.

- A. 0.004 B. 0.0040
C. 0.00405 D. 0.00406

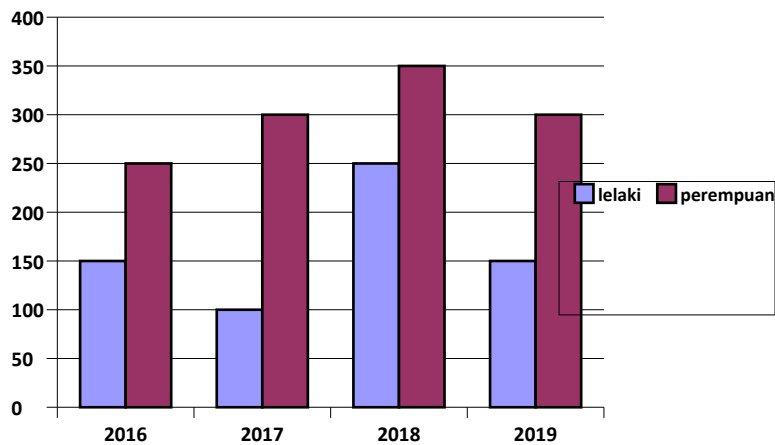
14. The diagram below shows a right-angled triangle PQR.



Find the value of x.

- A. 6 B. 18 C. 36 D. 72

15. Diagram shows a bar chart which shows the number of students in SMK Aman who scored an A in Mathematics examination for four consecutive years.



Find the difference between the total number of boys and girls.

- A. 550 B. 650
C. 1200 D. 1850

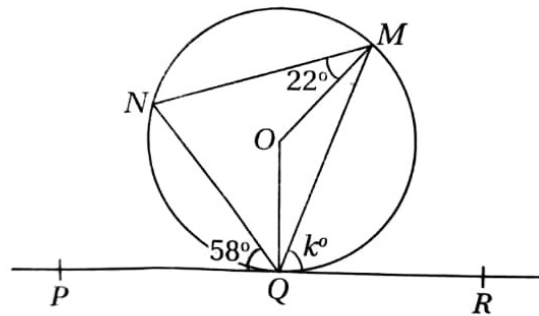
16. Sani saves an amount of RM15 000 in a bank for 4 years. Calculate the interest rate if he receives an interest of RM2 100.

- A. 0.035% B. 0.35%
 C. 3.5% D. 35%

17. State $3^7 \times 5^5 \times 3^3 \times 5$ in the simplest form.

- A. $3^4 \times 5^4$ B. $3^{10} \times 5^6$
 C. $3^{12} \times 5^4$ D. $3^8 \times 5^8$

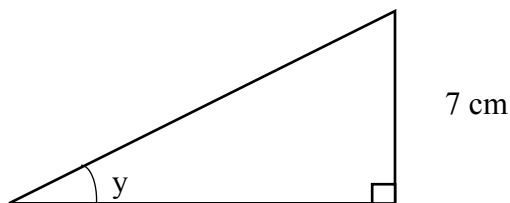
18. In the following diagram, PQR is tangent to the circle MNQ at Q. O is centre of the circle.



Find the value of k,

- A. 36 B. 54 C. 58 D. 72

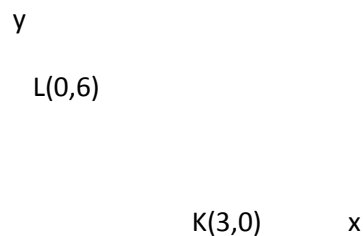
19. Diagram shows a right-angled triangle.



Given $\tan y = \frac{1}{2}$, find the value of $\sin y$.

- A. $\frac{1}{5}$ B. $\frac{2}{5}$ C. $\frac{3}{5}$ D. $\frac{4}{5}$

20. Diagram a straight line KL.



Which of the following equations represents the graph above

- A. $y = 6 - 2x$

- B $y = 2 - 6x$
- C $y = 18 - 2x$
- D $y = 18 - 6x$

SECTION B/BAHAGIAN B(20 MARKS/MARKAH)

This section contain **5** questions. Answer **all** the question.
Bahagian ini mengandungi 5 soalan. Jawab semua soalan.

1. Match the following.
 Answer/ Jawapan:

a)	$6 + 3 = 3 + 6$	●	
	.	●	●
b)	$4(5 + 2) = 4 \times 5 + 4 \times 2$	●	●
	.	●	●
c)	$0 + 7 = 7$	●	●
	.	●	●
d)	$(2 + 8) + 10 = 2 + (8 + 10)$	●	●
	.	●	●

●	Associative law <i>Hukum kalis sekutuan</i>
●	Identity law <i>Hukum identiti</i>
●	Commutative law <i>Hukum kalis tukar tertib</i>
●	Distributive Law <i>Hukum kalis agihan</i>

(4 marks/markah)

2. Complete the following steps in the answer space to show the method of determining the lowest common multiples (LCM) by using repeated division.

(4 marks/markah)

Answer/ Jawapan:

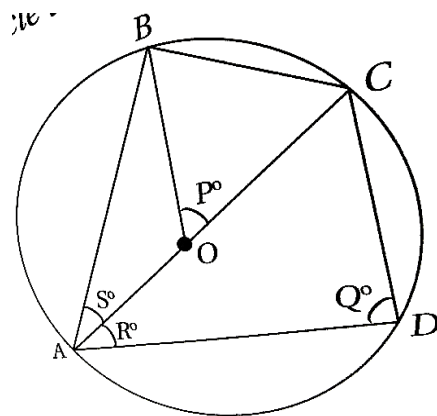
2	2	6	7
□	1	3	7
□	1	1	7
	1	1	1

Therefore, the LCM of 2, 6 and 7

=

=

3. In the diagram, AOC is the diameter of a circle with centre O.
(4 marks/markah)



Match the following.

Answer / Jawapan :

P	Half of $\angle P$ Separuh daripada $\angle P$
Q	Subtended by arc CD Dicangkum oleh lengkok CD
R	Angle at the centre Sudut pada pusat
S	Angle is 90° Sudut ialah 90°

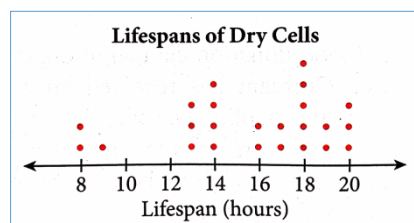
4. Name following types of data representation.

(4 marks/markah)

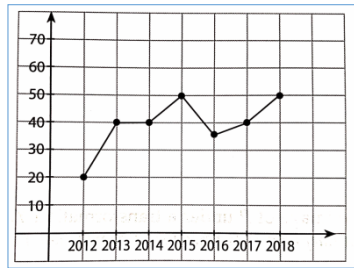
Plot titik	Graf Garis	Carta Pie	Carta Palang
<i>Dot plot</i>	<i>Line Graph</i>	<i>Pie Chart</i>	<i>Bar Chart</i>

Answer / Jawapan :

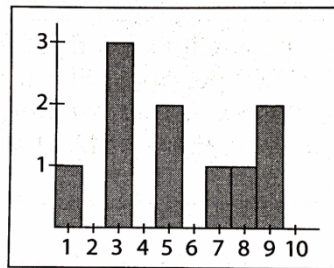
(i)



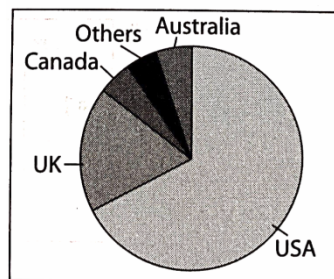
(ii)



(iii)



(iv)



5. a) Mark ✓ for the low risk and high return investment..

(1 mark/markah)

Answer / Jawapan :

Amanah saham <i>Unit trust</i>	
Saham <i>Share</i>	
Hartanah <i>Real estate</i>	

b) Complete the table in the answer space by using the information below.

(3 marks/markah)

Akaun simpanan <i>Saving account</i>	Akaun simpanan tetap <i>Fixed deposit account</i>	Akaun semasa <i>Current account</i>
---	--	--

Answer / Jawapan :

	Ciri <i>Feature</i>	Jenis akaun <i>Type of account</i>
i)	Savings can be withdraw through automatic teller machine..	

ii)	Allow to make payments in the form of cheques	
iii)	Save money for a certain period of time to get higher interest rates..	

SECTION C/BAHAGIAN C(60 MARKS/MARKAH)

This section contain 6 questions. Answer **all** the question.

1. a) Match the correct answers.

(2 marks/markah)

Answer/Jawapan:

-4^2	▶		-16
$(-4)^2$	▶		4
	▶		8
	▶		16

b) Construct a linear inequality for the situations below.

- (i) The price, RM r of a car is RM 40 000 and above.
- (ii) Ana took maximum 2 hours to finish her homework.
- (iii) Students must score at least an 80% to get grade A
- (iv) Siva bring minimum RM5 to school everyday.

(4 marks/markah)

Answer/Jawapan:

- (i)
- (ii)
- (iii)

(iv)

c)i) Find the value of $\left(\frac{4}{9}-2\right)^2$.

Answer/Jawapan:

(2 marks/markah)

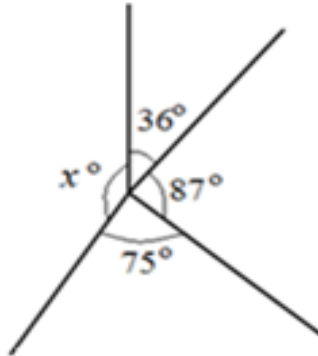
ii) Solve

$$\sqrt{0.64} - 0.0081$$

Answer/Jawapan:

(2 marks/markah)

2. a) Based on the diagram,



(i) find angle x° .

(1 mark/markah)

Answer/Jawapan:

(ii) What type of angle is x ?

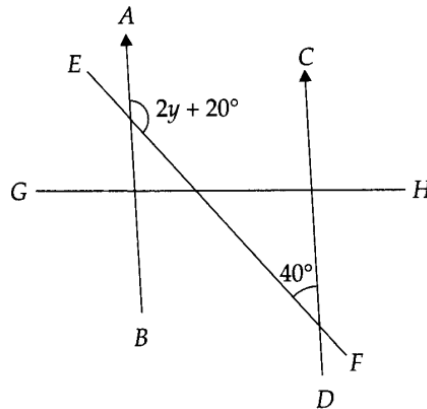
(1 mark/markah)

\

Answer/Jawapan: _____

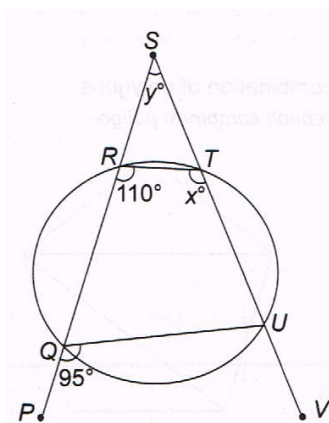
b) i) Calculate the value of y .

(2 marks/markah)



Answer/Jawapan:

ii) In the diagram, PQRS and STUV are straight lines.



Find the value of x and of y .

(2 marks/markah)

Answer/Jawapan:

c) A manager of a construction company wants to change to a new larger signage. The figure below shows the dimensions of the original signage. Assume that the dimensions of the new signage is three times the length and the width.

3m

1.2m

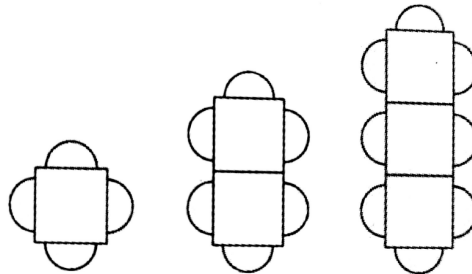


(4 marks/markah)

Calculate the perimeter of the new signage and explain how many times bigger the perimeter of the new signage when compared with the original signage.

Answer/Jawapan:

3.a)The diagram shows the first three arrangement of tables and chairs in a restaurant.



i) Complete the table in the answer space.

(2 marks/markah)

Answer/Jawapan:

Arrangement	Number of tables	Number of chairs
1	1	4
2	2	6
3	3	8
4	4	
5	5	

ii) State the pattern of the sequence formed by the number of chairs in numerals.

(1 mark/markah)

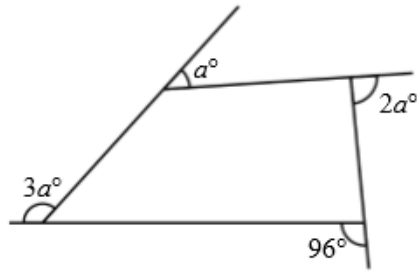
Answer/Jawapan: _____

iii) Calculate the number of chairs needed if the number of tables is 8.

(2 marks/markah)

Answer/Jawapan:

b)The diagram below show an equilateral.



Calculate the value of a.

(2 marks/markah)

Answer/Jawapan:

c) In a telematch, students must take one card that has the letters S, U, R, A, T from a basket.

i) List the elements in the sample space.

ii) List the elements in the sample space for the event, if
 a) consonant are chosen
 b) vowel are chosen

(3 marks/markah)

Answer/Jawapan:

i)

ii)a)

b)

4.a) Expand

i)

Answer/Jawapan:

ii)

(3 marks/*markah*)

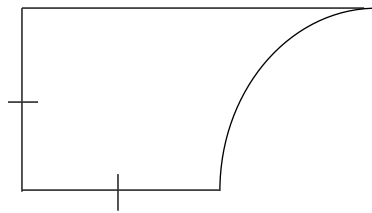
Answer/*Jawapan*:

b) Simplify

(3 marks/*markah*)

Answer/*Jawapan*:

c) A quadrant is cut and removed from a rectangular cardboard. The remaining shape is shown in the diagram.



The area of quadrant is 9 cm^2 .

Calculate the area, in cm^2 , of the remaining shape. Give the answer correct to two decimal place.

(Use / *Guna*

(4 marks/*markah*)

Answer/*Jawapan*:

5.a)i) Table shows the age of 20 visitors at the National Museum. Complete the frequency table below.

18	28	18	24
18	23	30	24
26	35	22	13
16	33	19	32
6	16	34	27

(2 marks/markah)

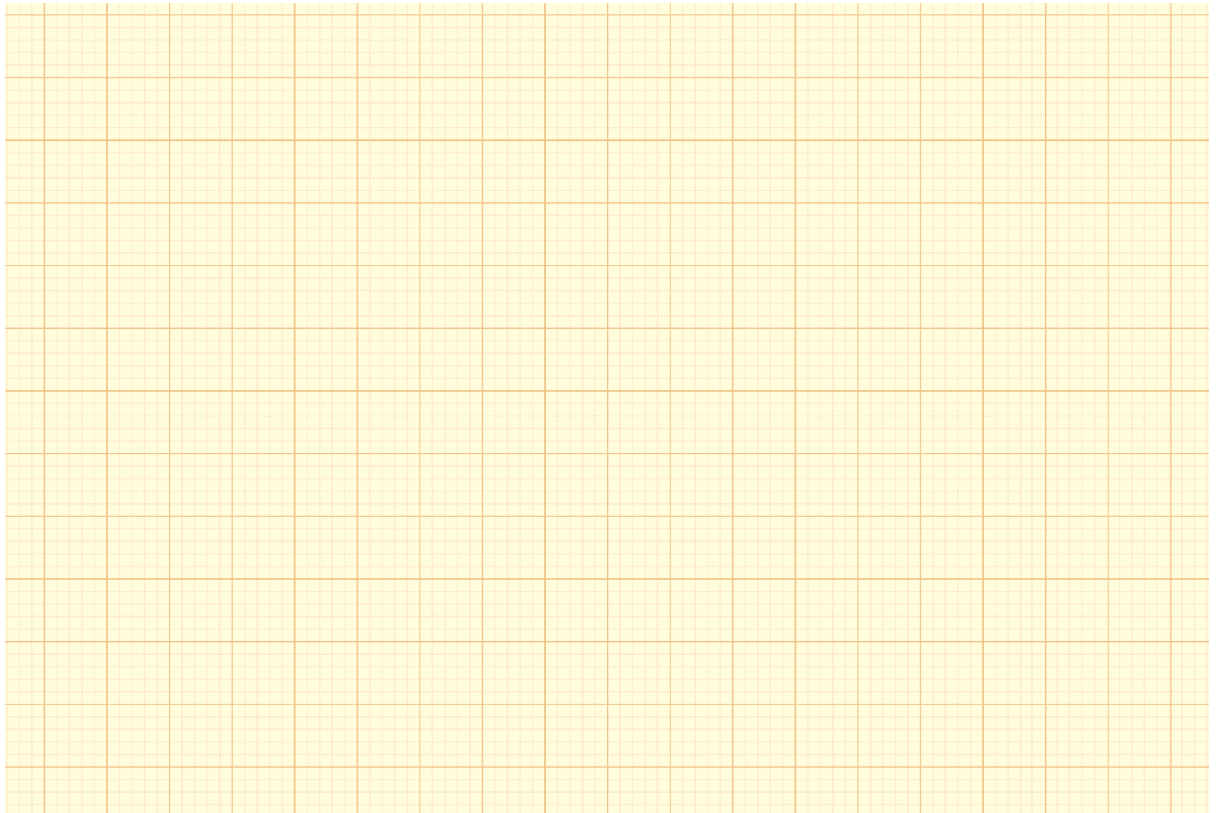
Answer/Jawapan:

Age (year)	Tally	Frequency
6 -10	/	1
11 – 15		
16 – 20		
21 – 25		
26 – 30		
31 - 35		

- ii) A survey was carried out in class to find out how students travel to school and the results are as shown in the table below. Construct a bar chart to represent the data.
(3 marks/markah)

Transportation <i>Pengangkutan</i>	Car <i>Kereta</i>	School bus <i>Bas sekolah</i>	Public bus <i>Bas awam</i>	Bicycle <i>Basikal</i>	Walk <i>Berjalan kaki</i>
Frequency <i>Kekerapan</i>	8	10	7	2	5

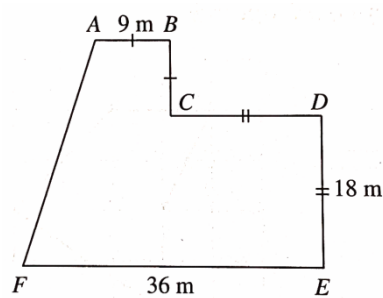
Answer/Jawapan:



b) Given 5 cm represents 120m, find the scale used.
(1 mark/markah)

Answer/Jawapan:

c)The diagram shows a polygon ABCDEF



i) If the polygon is redrawn using the scale 1 : 300, calculate the length of DE
(1 markah/mark)

Answer/Jawapan:

ii) In the answer space, redraw the polygon using the scale 1 : 300. The grid equal squares with sides of 1 cm.

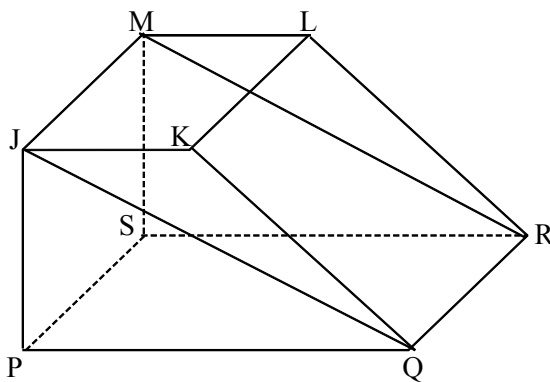
(3 marks / markah]

Answer/Jawapan:



6. a) The diagram shows a trapezium with base PQRS. State one of a normal to the following plane.

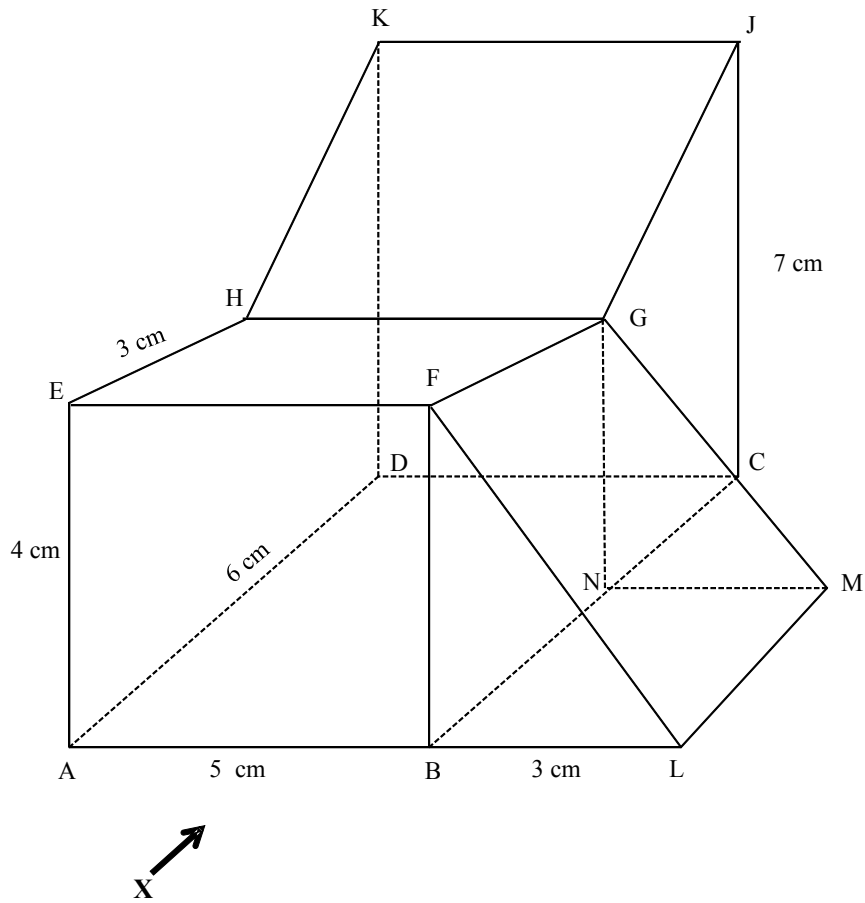
(3 marks/markah)



Answer / Jawapan :

- (i) JMSP =
- (ii) JKLM =
- (iii) PJKJ =

- b) The diagram shows a composite solid with base ABLMNCD on the horizontal plane. FLMG and HGJK plane are inclined plane.



Draw the orthogonal projection of the object on a vertical plane as viewed from Y.
 (3 marks/markah)

Answer / Jawapan :

c) In the diagram in the answer space, $PQTU$ and $QRST$ are two squares which are congruent. X, Y and Z are three moving points in the two squares.

i) The locus of point X which moves such that it is always equidistant from line QR and line RS .

By using the letters in the diagram, **state the locus of X.**

ii) Draw the locus of point Y which moves such that $TY = QT$

iii) Draw the locus of point Z which moves such that it is always **equidistant from point P and point U.**

iv) Mark the intersections of the locus Y and the locus Z by using the symbol .

(4 marks/markah)

Answer / Jawapan:

(i)

(ii),(iii), (iv)

