



JAWAPAN *Bank Soalan UASA*

Bab 1

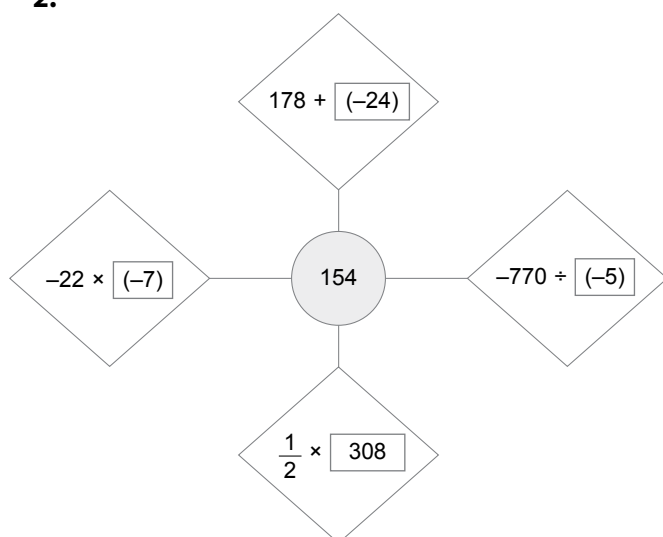
Nombor Nisbah *Rational Numbers*

Soalan Objektif

1. A 2. A 3. C 4. D 5. C

Soalan Subjektif

1. (a) ✓ (b) ✗ (c) ✓ (d) ✓
2.



3. (a) x: -0.05 y: -9.25 z: 1.725

- (b) Suhu selepas 30 minit
The temperature after 30 minutes
 $= 30 + (-1.5 \times 30)$
 $= 30 - 45$
 $= -15^\circ\text{C}$

Cecair itu telah mencapai takat beku cecair,
 $-15^\circ\text{C} < -10^\circ\text{C}$. Maka, cecair itu sudah membeku.

*The liquid has reached the freezing point,
 $-15^\circ\text{C} < -10^\circ\text{C}$. Thus, the liquid has frozen.*

- (c) (i) Perimeter $= 2\left(\frac{7}{9}\right) + 2\left(\frac{7}{9} - \frac{1}{3}\right)$
 $= \frac{22}{9} \text{ m}$
 $= 244.44 \text{ cm}$

- (ii) Bilangan potongan kek yang diterima oleh setiap tetamu
Number of pieces of cake received by each guest
 $= (4 \times 5) \div 8$
 $= 2\frac{1}{2}$

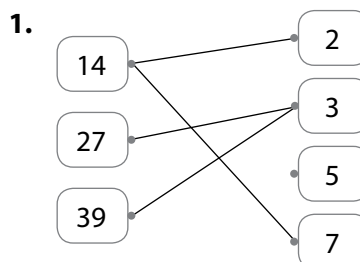
Bab 2

Faktor dan Gandaan *Factors and Multiples*

Soalan Objektif

1. B 2. D 3. D 4. A 5. B

Soalan Subjektif



2. $w = 37, x = 31, y = 29, z = 17$

3. (a) (i) 84
(ii) 3, 5, 7
(b) (i) 24, 48, 72, 96
(ii) 24
(c) (i) 8 kumpulan / groups
(ii) 3 perempuan dan 2 lelaki
3 girls and 2 boys

Bab 3

Kuasa Dua, Punca Kuasa Dua, Kuasa Tiga dan Punca Kuasa Tiga *Squares, Square Roots, Cubes and Cube Roots*

Soalan Objektif

1. B 2. B 3. B 4. D 5. C

Soalan Subjektif

$$\begin{aligned}
 1. \quad & \sqrt[3]{2\frac{5}{8} + \frac{3}{4}} - \sqrt{5\frac{1}{16}} \\
 &= \sqrt[3]{\frac{27}{8}} - \sqrt{\frac{81}{16}} \\
 &= \frac{3}{2} - \frac{9}{4} \\
 &= -\frac{3}{4}
 \end{aligned}$$

$$\begin{aligned}
 2. \quad & \left(\sqrt[3]{\frac{1}{16}} + \sqrt[3]{\frac{27}{64}} \right)^2 \\
 &= \left(\sqrt{\frac{49}{16}} + \sqrt[3]{\frac{27}{64}} \right)^2 \\
 &= \left(\frac{7}{4} + \frac{3}{4} \right)^2 \\
 &= \frac{25}{4} \text{ atau } 6\frac{1}{4}
 \end{aligned}$$

3. (a) (i) 3.6 m
(ii) 12.96 m²
(b) (i) 9
(ii) 27 cm³
(c) 20 cm

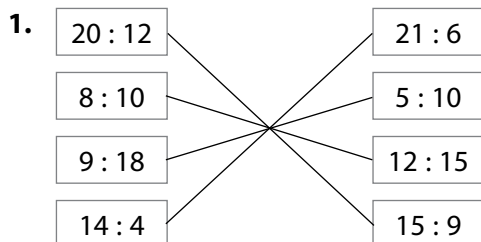
Bab 4

Nisbah, Kadar dan Kadaran Ratios, Rates and Proportions

Soalan Objektif

1. C 2. B 3. C 4. C 5. A

Soalan Subjektif



2.

	a : b	b : c	a : b : c
(a)	2 : 3	3 : 7	2 : 3 : 7
(b)	6 : 11	11 : 15	6 : 11 : 15
(c)	2 : 7	3 : 5	6 : 21 : 35
(d)	2 : 5	4 : 9	8 : 20 : 45

3. (a) (i) Gerai Q / Stall Q
(ii) RM27
(b) (i) 40%
(ii) 1 : 4
(c) 6 : 4 : 5

Bab 5

Ungkapan Algebra Algebraic Expressions

Soalan Objektif

1. B 2. C 3. B 4. B 5. D

Soalan Subjektif

1.

$$\begin{array}{cccc}
 \frac{25x}{-18y^2} & 9pq & \frac{3}{4}r & 2.5a^2bc \\
 & \frac{q}{2} & -0.71t^3 & -2g
 \end{array}$$

2. (a) $5 - 2x$
(b) $3p + 3q$
(c) $\frac{4a}{5} - b$
(d) $3g + 4$

3. (a) (i) $3x - y - 3$
(ii) $pq + 2p + 2q - 6$
(b) (i) $48y - 4xy$
(ii) 70 cm^2
(c) $\frac{12mn}{a} + \frac{24mn}{b} + \frac{8mn}{c}$

Bab 6

Persamaan Linear Linear Equations

Soalan Objektif

1. B 2. B 3. C 4. B 5. A

Soalan Subjektif

1. (a) (i) Ya / Yes
(ii) Tidak / No
(b) $\frac{2v - 3w}{4} = 4$ $2x + \frac{5}{y} = 4$
 $2x + y^2 = 15$ $\frac{7h + 2g}{-1} = -1$
 $\frac{4p + 12}{2q} = 2q$ $z + 2 = -5$

2.

x	-3	0	1	$\frac{1}{2}$
y	10	4	2	3

3. (a) (i) Kaedah graf / Graphical method
(ii) $x = 5, y = 1$
(b) $x = 4$
(c) $x = -1, y = 3$

Bab 7

Ketaksamaan Linear Linear Inequalities

Soalan Objektif

1. B 2. C 3. C 4. C 5. B

Soalan Subjektif

1. (a) (i) $-9 \boxed{<} -2$

(ii) $3 \boxed{>} -4$

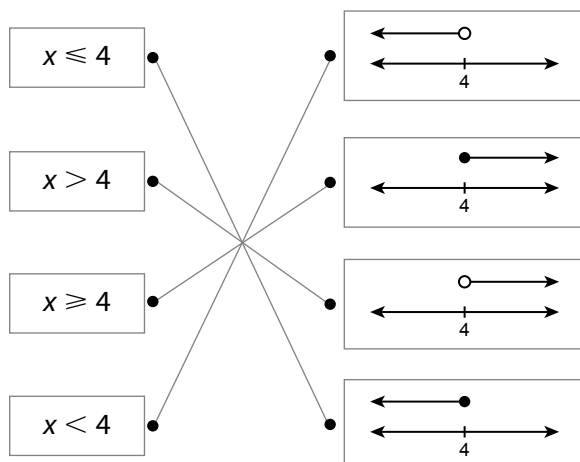
(b) (i) $-15 > -6$

(ii) $-7 > 7$

$-15 < -6$

$-7 < 7$

2.

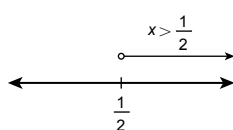


3. (a) $t \leq 2.4; v \leq 30$

(b) (i) $1 + 3x > 2 + x$

(ii) $x > \frac{1}{2}$

(iii)



(c) (i) $-1 \leq x < 5$

(ii) $-1, 0, 1, 2, 3, 4$

Bab 8

Garis dan Sudut Lines and Angles

Soalan Objektif

1. A 2. C 3. B 4. D 5. A

Soalan Subjektif

1. (a) $q = s$

Palsu / False

(b) $r = s$

Benar / True

(c) $p = s$

Palsu / False

(d) $q + s = 180^\circ$

Palsu / False

2. (a) 150°

(b) 50°

(c) 195°

(d) 280°

3. (a) 90°

(b) (i) 38°

(ii) 45°

(c) 26.5°

Bab 9

Poligon Asas Basic Polygons

Soalan Objektif

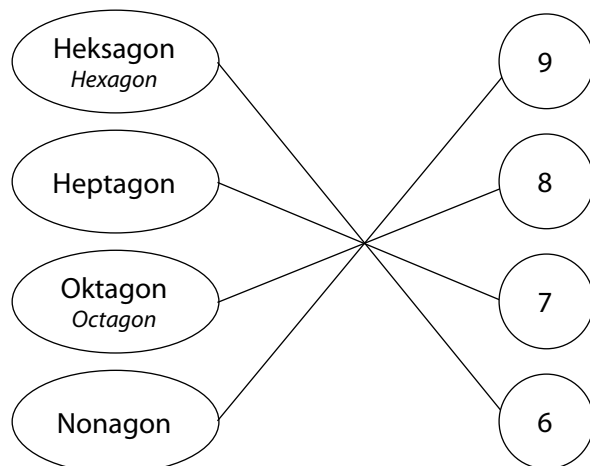
1. B 2. C 3. A 4. D 5. D

Soalan Subjektif

1.

Segi empat selari Parallelogram	Segi empat sama Square
0	4

2.



3. (a) 25°

(b) 54°

(c) $v = 18^\circ, w = 162^\circ, x = 108^\circ, y = 72^\circ$

Bab 10

Perimeter dan Luas Perimeter and Area

Soalan Objektif

1. B 2. B 3. A 4. D 5. C

Soalan Subjektif

1.

3 cm

6 cm

3 cm

2 cm

3 cm

3 cm

18 cm

16 cm

12 cm

10 cm

2. (a) 8
(b) (i) ✗
(ii) ✓
(iii) ✓
3. (a) 1.5
(b) (i) 3
(ii) 104 m
(c) Tidak. Perimeter Rajah(a) ialah 30 cm manakala perimeter Rajah(b) ialah 26 cm.
No. The perimeter of Diagram (a) is 30 cm whereas the perimeter of Diagram (b) is 26 cm.

Bab 11

Pengenalan Set Introduction of Set

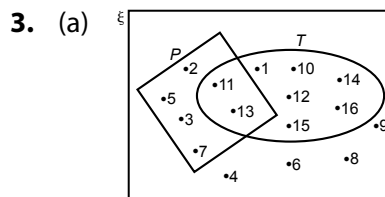
Soalan Objektif

1. A 2. B 3. C 4. C 5. D

Soalan Subjektif

1. (a) Ya / Yes
(b) Bukan / No
(c) Bukan / No
(d) Bukan / No

2. (a) $\subset$
(b) $\nsubseteq$
(c) $\in$
(d) $\not\in$



- (b) (i) $P = \{1, 2, 3, 6, 9, 18\}$; $Q = \{3, 6, 9\}$
(ii) Ya. Setiap unsur dalam set Q ialah unsur bagi set P.
Yes. Every element in set Q is also an element in set P.
(c) $x = 9, y = 3$

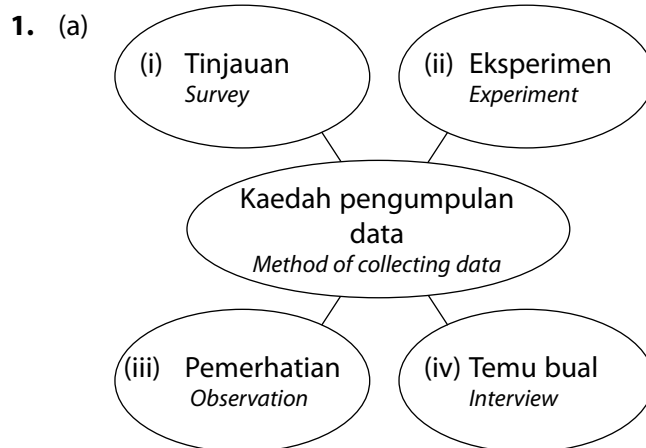
Bab 12

Pengendalian Data Data Handling

Soalan Objektif

1. D 2. B 3. B 4. B 5. D

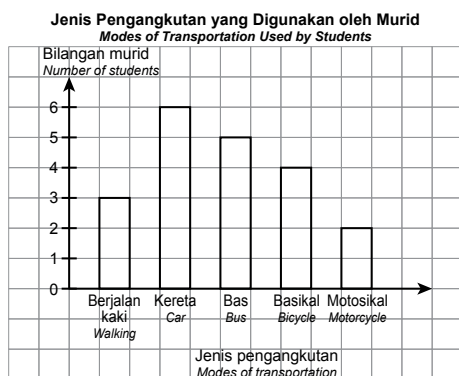
Soalan Subjektif



2. (a) Data kategori / *Categorical data*
(b) Data kategori / *Categorical data*
(c) Data numerik / *Numerical data*
(d) Data numerik / *Numerical data*
3. (a) (i) Carta pai / *Pie chart*
(ii) Carta palang / *Bar chart*
(iii) Plot titik / *Dot plot*



(b)



- (c) (i) Julai / July
(ii) RM200

Bab 13

Teorem Pythagoras *The Pythagoras' Theorem*

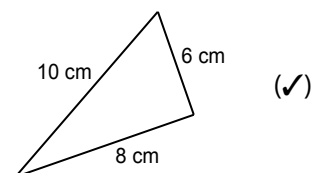
Soalan Objektif

1. C 2. C 3. C 4. C 5. B

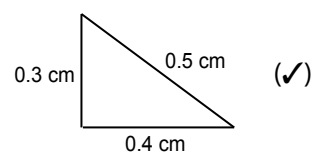
Soalan Subjektif

1. (a) (i) PR
(ii) a

(b) (i)



(ii)



2. (a) ✓ (b) ✗ (c) ✓ (d) ✗

3. (a) 14.5
(b) 22.20 cm
(c) Tidak. Panjang maksimum batang besi yang boleh dimuatkan dalam silinder itu ialah 48 cm.
 $54 \text{ cm} > 48 \text{ cm}$
No. The maximum length of the iron stick that can fit completely into the cylinder is 48 cm.
 $54 \text{ cm} > 48 \text{ cm}$