

Jawapan

Praktis 1

Praktis Formatif

1 D

Bentuk indeks Index form	Asas Base	Indeks Index
2^3	2	3
3^5	3	5
1.2^3	1.2	3
$(-7)^2$	-7	2

3 (a) 5^7
(b) 10^4

(c) $(-1.3)^6$

4 (a) 2^3
(b) 3^4
(c) 7^2
(d) 6^3

5 (a) $7 \begin{array}{r} 343 \\ 7 \overline{) 49} \\ 7 \overline{) 7} \end{array}$ (b) $343 = 7 \times 7 \times 7 = 7^3$

6 (a) ✓ (b) ✗ (c) ✗ (d) ✓
7 D

8 (a) $(2 \times 2 \times 2) \times (2 \times 2) = 2^5$
(b) 2^5
(c) +

9 (a) (i) $(3 \times 3) \times (3 \times 3 \times 3 \times 3 \times 3) = 3^7$

(ii) $3^{2+5} = 3^7$

(b) $3^2 \times 3^5 = 3^{2+5}$

10 (a) ✗ (b) ✗ (c) ✓ (d) ✗

11 (a) 4 (b) 2 (c) 0 (d) 2

12 (a) $\frac{3 \times 3 \times 3 \times 3 \times 3}{3 \times 3} = 3^3$

(b) 3^3

(c) 3^{5-2}

13 (a) (i) $\frac{2 \times 2 \times 2 \times 2 \times 2 \times 2}{2 \times 2 \times 2 \times 2} = 2^2$

(ii) $2^{6-4} = 2^2$

(b) $\frac{2^6}{2^4} = 2^{6-4}$

14 (a) 5 (b) 4 (c) 9 (d) 6

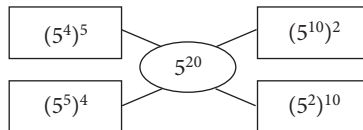
m	5	8	10	6
n	2	5	7	3

16 (a) (i) $(3^4)^3 = 3^4 \times 3^4 \times 3^4 = 3^{4+4+4} = 3^{12}$

(ii) $(3^4)^3 = 3^{4 \times 3} = 3^{12}$

(b) $(3^4)^3 = 3^{4 \times 3}$

17



18 (a) (i) $a^3 \div a^3 = \frac{a^3}{a^3} = \frac{a \times a \times a}{a \times a \times a} = 1$

(ii) $a^3 \div a^3 = a^{3-3} = a^0$

(b) $a^0 = 1, a \neq 0$

19 (a) (i) $\frac{a \times a}{a \times a \times a} = \frac{1}{a}$

(ii) $a^2 \div a^3 = a^{-1}$

(b) $a^{-1} = \frac{1}{a}$

20 (a) ✓ (b) ✗
(c) ✓ (d) ✓

21 (a) $\frac{1}{2^{13}}$ (b) $\frac{1}{5^4}$

(c) 12^6 (d) $\left(\frac{2}{3}\right)^2$

22

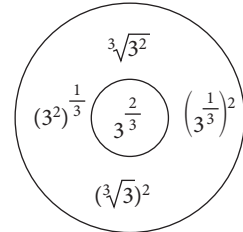
Nombor $\frac{1}{3}$ $\frac{1}{14^2}$ $\frac{1}{10^5}$ $\left(\frac{4}{7}\right)^8$

Bentuk as as as
Form 3^{-1} 14^{-2} 10^{-5} $\left(\frac{7}{4}\right)^{-8}$
 a^{-n}

23 (a) $(2^3)^4$ (b) $\sqrt[5]{10^2}$

(c) $\sqrt[3]{6^2}$ (d) $(\sqrt[2]{3})^4$

24



25 (a) $x = 5, y = 4$
(b) $x = 7, y = 3$

26 (a) 2^6 (b) 2^5
(c) 2^{10} (d) 2^7

27 (a) ✓ (b) ✗
(c) ✗ (d) ✓

28 (a) $\frac{1}{4} \times \frac{1}{3} = \frac{1}{12}$

(b) $\frac{1}{7} \div \frac{1}{6} = \frac{1}{7} \times 6 = \frac{6}{7}$

29 (a) 144 (b) 25

(c) 1 (d) $\frac{7}{18}$

30 B

31 16

32 $\frac{1}{25}$

Praktis Sumatif

1 C 2 D 3 A 4 A 5 C

6 (a) $5 \frac{1}{16}$

(b) 74.088

7 $m = 2, n = 3; m = 4, n = 1; m = 3, n = 2$

8 (a) $x - 4 = y$

(b) $x = 7$

9 $k = 12, m = 9, n = 10$

10 (a) $p = 3, q = 16$

(b) $a^4 = \frac{1}{36}$

11 (a) 19 683

(b) $\frac{1}{729}$

12 $\frac{1}{49}$

13 $\frac{3}{8}$

14 $\frac{3}{4}$

15 (a) 3^{4p-1}

(b) 3^{17x-21}

Praktis 2

Praktis Formatif

1 A

2 (a) 5 (b) 3

(c) 5 (d) 4

3 (a) 0.04, 90, 3, 20 000

(b) 5.0, 0.032, 0.000063, 88

(c) 1.02, 43.9, 0.00701, 0.230

4 (a) 300

(b) 300

(c) 303

5 (a) ✓ (b) ✓

(c) ✗ (d) ✗

6 (a)

6	6.15
---	------

(b)

300	251
-----	-----

(c)

0.8	0.820
-----	-------

(d)

0.004	0.00420
-------	---------

7 D

8 (a) 8×10^2

(b) 6.3×10^{-3}

(c) 1.724×10^3

(d) 5.91×10^{-6}

9 (a) 2.6×10^3

(b) 1.548×10^{-4}

(c) 3.2×10^5

(d) 4.5×10^{-7}

10

$\frac{12}{\text{as}} \frac{400\ 000}{\text{as}} \frac{0.9}{\text{as}} \frac{0.00064}{\text{as}}$

$1.2 \times 10^1 \quad 4 \times 10^5 \quad 9 \times 10^{-1} \quad 6.4 \times 10^{-4}$

11 (a) 1.4×10^4

(b) 7×10^5

(c) 4.30×10^{-2}

(d) 2.9×10^{-6}

12 (a) $584 + 6\ 103 = 6\ 687$

$= 6.687 \times 10^3$

(b) $0.46 - 0.0007$

$= 0.4593$

$= 4.593 \times 10^{-1}$

(c) $320 \times 80 = 25\ 600$

$= 2.56 \times 10^4$

(d) $0.12 \div 2\ 400 = 0.00005$

$= 5 \times 10^{-5}$

13 (a) ✓ (b) ✗ (c) ✓ (d) ✓

14 (a) $3.7 \times 10^6 - 5 \times 10^5$

$= 3.7 \times 10^6 - 0.5 \times 10^6$

$= (3.7 - 0.5) \times 10^6$

$= 3.2 \times 10^6$

(b) $8 \times 10^{-3} - 4 \times 10^{-5}$

$= 8 \times 10^{-3} - 0.04 \times 10^{-3}$

$= (8 - 0.04) \times 10^{-3}$

$= 7.69 \times 10^{-3}$

(c) $6 \times 10^4 \times 7 \times 10^3$

$= (6 \times 7) \times (10^4 \times 10^3)$

$= 42 \times 10^{4+3}$

$= 4.2 \times 10^8$

(d) $\frac{3 \times 10^{-6}}{4 \times 10^{-2}}$

$= \frac{3}{4} \times \frac{10^{-6}}{10^{-2}}$

$= 0.75 \times 10^{-6-(-2)}$

$= 7.5 \times 10^{-5}$

15 (a) $16 \times 1.66 \times 10^{-24}$

$= 26.56 \times 10^{-24}$

$= 2.656 \times 10^{-23}$

(b) $2 \times 1.66 \times 10^{-24} + 2.656 \times 10^{-23}$

$= 0.332 \times 10^{-23} + 2.656 \times 10^{-23}$

$= 2.988 \times 10^{-23}$

16 (a) 4.5×10^6 km

(b) 1.8×10^2 s

Praktis Sumatif

1 C 2 C 3 A 4 B 5 D

6 (a)

2	4 000
---	-------

(b)

3	10
---	----

(c)

4	0.3
---	-----

(d)

5	0.007
---	-------

7 (a) 4

(b) 1.7

8 (a) $A = 7.5, n = 5$

(b) (i) 1.0×10^{-9}

(ii) 1.050×10^{-9}

9 (a) 4.96×10^{-3}

(b) (i) 5.04×10^{-3}

(ii) 2.48×10^{-4}

10 (a) 1.8×10^6

(b) 1.32×10^{-5}

(c) 1.3×10^3

11 (a) 3.56×10^6

(b) 5×10^{11}

12 8.02×10^{-2}

13 (a) 5×10^2 cm

(b) 1.38×10^{-1} kg

14 (a) 5.44×10^8 m²

(b) 1.34×10^5 ekar/acres

Praktis 3

Praktis Formatif

1 D

2 (a) Akaun simpanan, Akaun semasa, Akaun simpanan tetap
Saving accounts, Current accounts, Fixed deposit accounts

(b) Hartanah, Amanah saham, Saham

Properties, Unit trusts, Shares

3 (a) RM46.80

(b) RM78

4 (a) 8%

(b) 4 tahun 4 bulan

4 years 4 months

(c) RM14 000

5 (a) $2\ 000(1 + 0.04 \times 2)$

$= \text{RM}2\ 160$

(b) $2\ 000(1 + 0.04 \times 5)$

$= \text{RM}2\ 400$

6 (a) (i) RM5 600

(ii) RM7 400

(iii) RM8 000

(b) (i) ✓

7 (a) (i) RM3 720

(ii) RM3 787.40

(b) (i) B

(ii) 67.40

8 (a) RM973.32, RM173.32

(b) RM1 897.98, RM3 97.98

(c) RM1 498.64, RM298.64

(d) RM7 630.13, RM3 430.13

9 (a) (i) RM2 136.80

(ii) RM2 148.73

(iii) RM2 154.98

(b) (i) ✓

10 (a) (i) 276.26 (ii) 372.22

(iii) 671.27 (iv) 1 760.00

- (b) bertambah/*increases*
- 11 (a) 30%
(b) 25%
(c) 20%
(d) 40%
- 12 (a) (i) 20%
(iii) 50%
(b) Masa; Masa yang lebih pendek mempunyai risiko yang lebih tinggi.
Time; A shorter time has higher risk.
- 13 (a) Keuntungan pada tahun pertama
Profit on the first year

$$= \text{RM}10\,000 \times \frac{8}{100}$$

$$= \text{RM}800$$
 Jumlah pulangan pada tahun pertama
Total return on the first year

$$= \text{RM}10\,000 + \text{RM}800$$

$$= \text{RM}10\,800$$
- (b) Keuntungan pada tahun kedua
Profit on the second year

$$= \text{RM}10\,800 \times \frac{12}{100}$$

$$= \text{RM}1\,296$$
 Jumlah pulangan pada tahun kedua
Total return on the second year

$$= \text{RM}10\,800 + \text{RM}1\,296$$

$$= \text{RM}12\,096$$
- (c) Nilai pulangan pelaburan dalam dua tahun
Return value of investment in two years

$$= \frac{\text{RM}(12\,096 - 10\,000)}{\text{RM}10\,000} \times 100\%$$

$$= 20.96\%$$
- 14 (a) RM26 450
(b) 14.9%
- 15 (a) RM28 000
(b) 28%
- 16 (a) Rendah/*Low*
(b) Tinggi/*High*
(c) Sederhana/*Medium*
(d) Sederhana/*Medium*
- 17 (a)

I	RM4 635
II	RM4 900

- (b) Pelaburan saham ABX, pulangan lebih tinggi.
Investment ABX, higher return.
- 18 (a) Kecairan tinggi
High liquidity
(b) Kecairan sederhana
Medium liquidity
(c) Kecairan sederhana
Medium liquidity
(d) Kecairan rendah
Low liquidity
- 19 (a) RM11.90
(b) RM1.69
- 20 (a) (i) 12 000
(ii) 5 400
(iii) 5 000
(b) RM2.24
(c) Mengurangkan kos sesyer.
Reduce cost per share.
- 21 (a) (i) 4 800
(ii) 21 200
(iii) 9 200
(iv) 16 500
(b) (i) 51.7 sen
(ii) RM5 040
- 22 RM8 933.61
- 23 RM7 200
- 24 B
- 25 (a) Hutang/*Debt*
(b) Kredit/*Credit*
- 26 (a) Kredit/*Credit*
(b) Hutang/*Debt*
(c) Hutang/*Debt*
(d) Kredit/*Credit*
- 27 (a) ✓
(c) ✓
(d) ✓
- 28 (a) Kekurangan kad kredit
Disadvantage of credit card
(b) Kelebihan kad kredit
Advantage of credit card
(c) Kelebihan kad kredit
Advantage of credit card
(d) Kekurangan kad kredit
Disadvantage of credit card
- 29 (a) RM5.31
(b) RM55.72
- 30 (a) (i) RM1 067.50
(ii) RM1 480.17
(iii) RM25.48
(b) RM148.37
- 31 (a) RM50
(b) RM75

- (c) RM100
- 32 (a) **Situasi 1/Situation 1**

Bulan <i>Month</i>	Faedah <i>Interest</i> (RM)	Baki <i>Balance</i> (RM)
1	23.75	1 923.75
2	22.80	1 846.55
3	21.83	1 768.38
4	20.85	1 689.23

Situasi 2/Situation 2

Bulan <i>Month</i>	Faedah <i>Interest</i> (RM)	Baki <i>Balance</i> (RM)
1	18.75	1 518.75
2	12.73	1 031.48
3	6.64	538.12
4	0.48	38.60

- (b) Bulan ke-4/*4th month*, RM38.60
(c) Situasi 2/*Situation 2*, RM50.63
- 33 (a) (i) RM2 809
(ii) RM78.03
(b) (i) RM4 590
(ii) RM153

Praktis Sumatif

- 1 B 2 B 3 D 4 A 5 B
- 6 (a) (i) RM10 800
(ii) RM12 096
(b) (i) 20.96%
7 (a) RM232
(b) Skim A; $r = 4.59\%$ bagi skim A dan $r = 4.75\%$ bagi skim B
Loan scheme A; $r = 4.59\%$ for scheme A and $r = 4.75\%$ for scheme B
- 8 (a) $k = 1$
(b) RM13 757.04
(c) RM109.46

Praktis 4

Praktis Formatif

- 1 A
- 2 (a) (i) $\frac{GH}{AB} = 2$ $\frac{HI}{BC} = 2$

$$\frac{IJ}{CD} = 2 \quad \frac{JK}{DE} = 2$$

$$\frac{KL}{EF} = 2 \quad \frac{GL}{AF} = 2$$

$$(ii) \frac{PQ}{AB} = \frac{3}{4} \quad \frac{QR}{BC} = \frac{1}{2}$$

$$\frac{RS}{CD} = 1 \quad \frac{ST}{DE} = 1$$

$$\frac{TU}{EF} = \frac{1}{2} \quad \frac{PU}{AF} = \frac{3}{4}$$

- (b) (i) ✓ (ii) ✗ (iii) ✓
 (iv) ✗ (v) ✓ (vi) ✗

3 (a) Bukan lukisan berskala
Not a scale drawing

(b) Lukisan berskala
A scale drawing

(c) Lukisan berskala
A scale drawing

4 I dan/and IV

5 (a) ✓ (b) ✓

6 (a) 1 : 2 (b) 1 : $\frac{1}{2}$

(c) 1 : $\frac{1}{3}$ (d) 1 : $\frac{3}{4}$

7 (a) 1 : 3

(b) 1 : 1

(c) 1 : $\frac{1}{2}$

$$8 \frac{H}{3.2} = \frac{1}{\frac{1}{5}}$$

$$H = 5 \times 3.2 = 16 \text{ cm}$$

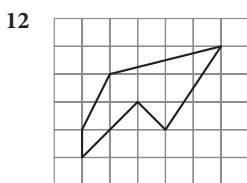
$$9 \frac{PQ}{5} = 6$$

$$PQ = 30 \text{ cm}$$

10 (a) ✓

(b) ✗

11 716.4 cm²



13 216

14 3

15 500 km

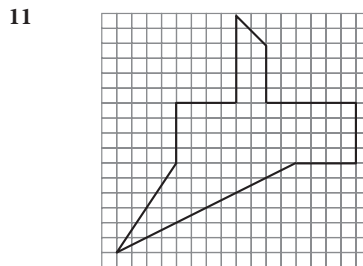
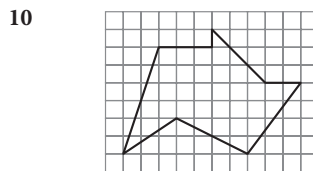
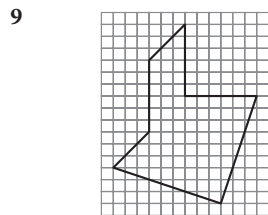
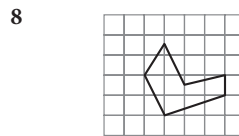
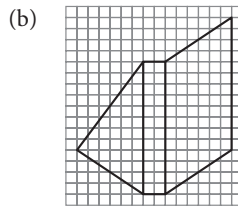
Praktis Sumatif

1 B 2 A 3 B 4 B 5 A

6 (a) 1 : 60

(b) $x = 39, y = 36.6$

7 (a) 1 : $\frac{1}{2}$



12 (a) 9.2 m

(b) 3.1 m

13 1 : 1 250

14 Panjang/Length = 96 cm,
 lebar/width = 38.4 cm

Praktis 5

Praktis Formatif

1 C 2 D

3 (a)

PQ	QR
PR	PS

(b)

4 (a) kos x

(b) tan x

(c) sin x

5 (a) (i) $\frac{BE}{AE} = \frac{CF}{AF} = \frac{DG}{AG}$

(ii) $\frac{AB}{AE} = \frac{AC}{AF} = \frac{AD}{AG}$

(iii) $\frac{BE}{AB} = \frac{CF}{AC} = \frac{DG}{AD}$

(b) (i) ✓

(ii) ✓

(iii) ✓

(c)

Nisbah/Ratio (a)(i)	tan x
Nisbah/Ratio (a)(ii)	sin x
Nisbah/Ratio (a)(i)	kos x

6 (a)

ABC	0.288	0.962	0.3
ABD	0.515	0.858	0.6
ABD	0.671	0.746	0.9

(b) (i) Betul/Correct

(ii) Salah/Wrong

(iii) Salah/Wrong

7 (a) 0.75

(b) 0.6

(c) 0.8

8 $PQ^2 = 65^2 - 25^2$

$$= 3\,600$$

$$PQ = 60 \text{ cm}$$

$$\cos \theta = \frac{60}{65}$$

$$= \frac{12}{13}$$

9 (a) 11.18 cm

(b) 1.118

(c) 0.7453

10 (a) $\frac{1}{2}$ (b) $\frac{1}{2}$ (c) $\sqrt{3}$

(d) $\frac{\sqrt{3}}{2}$ (e) $\frac{1}{\sqrt{3}}$ (f) $\frac{\sqrt{3}}{2}$

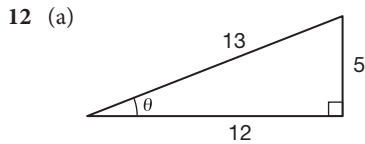
11 (a) $\frac{LM}{20} = \frac{7}{10}$

$$LM = \frac{7}{10} \times 20$$

$$= 14 \text{ cm}$$

(b) $\frac{PQ}{8} = 1.4$
 $PQ = 1.4 \times 8$
 $= 11.2 \text{ cm}$

(c) $\frac{35}{AC} = \frac{7}{8}$
 $AC = \frac{7}{8} \times 35$
 $= 40 \text{ cm}$



(b) (i) $\frac{5}{13}$
(ii) $\frac{12}{13}$

13 (a) ✓ (b) ✗

14 (a) $66^\circ 25'$
(b) $32^\circ 44'$
(c) $35^\circ 16'$

15 D

16 (a) ✗ (b) ✓

17 45°

18 (a) 22 cm
(b) $45^\circ 34'$

19 (a) 36.4 m
(b) $36^\circ 3'$

20 (a) 20 m
(b) $26^\circ 34'$

Praktis Sumatif

1 B 2 B 3 B 4 D 5 A

6 (a) $\frac{5}{6}$ (b) 0.9798

7 (a) $\frac{5}{6}$ (b) $51^\circ 20'$

8 (a) AC (b) BC (c) AB

(d) $\frac{AB}{BC}$ (e) $\frac{AC}{BC}$ (f) $\frac{AB}{AC}$

9 (a) 0.6614 (b) $30^\circ 6'$

10 (a) $\frac{5}{13}$ (b) $24^\circ 47'$

11 (a) 23.07 cm
(b) $46^\circ 22'$

12 32.9 m

13 (a) 188 m
(b) $4^\circ 20'$

Praktis 6

Praktis Formatif

1 B

2 (a) Sudut pada pusat yang dicangkum lengkok AD.
Angle at the centre subtended by arc AD.

(b) Sudut pada lilitan yang dicangkum lengkok AD.
Angle at the circumference subtended by arc AD.

(c) Sudut pada lilitan yang dicangkum lengkok BC.
Angle at the circumference subtended by arc BC.

(d) Sudut pada lilitan yang dicangkum lengkok AC.
Angle at the circumference subtended by arc AC.

3 (a) PQ

(b) (i) $\angle PRQ, \angle PSQ$
(ii) $\angle RPS, \angle RQS$

(c) (i) 2

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

(iii) RQS

4 $x = 42^\circ, y = 35^\circ$

5 (a) ✓ (b) ✓ (c) ✗

6 C

7 (a) $\angle BAD = 90^\circ$
 $x + 38^\circ = 90^\circ$
 $x = 52^\circ$

(b) $y + 25^\circ = 38^\circ$
 $y = 13^\circ$

(c) $\angle BOC = 180^\circ - 25^\circ - 25^\circ$
 $= 130^\circ$
 $z = \frac{1}{2} \times 130^\circ$
 $= 65^\circ$

8 B

9 (a) ACDE

(b) $s + u, t + v$

10 (a) = (b) =
(c) \neq (d) \neq

11 (a) ✓ (b) ✗

12 $\angle PRQ = 43^\circ$
 $\angle QPS + \angle QRS = 180^\circ$
 $(55^\circ + x) + (35^\circ + 43^\circ) = 180^\circ$
 $x = 47^\circ$

13 $x = 123^\circ, y = 37^\circ$

14 A

15 CD, GH

16 (a) OC (b) AC (c) 90°
(d) 90° (e) CAO (f) AOC

17 (a)

(i) a	d
(ii) b	c

(b) (i) $a = d$
(ii) $b = c$

18 (a) (i) ✓ (ii) ✓
(b) (i) ✓ (ii) ✗

19 (a) $2x = 32^\circ$
 $x = 16^\circ$
(b) $y + 50^\circ = 62^\circ$
 $y = 12^\circ$

20 (a) 32°
(b) 64°

21 $x = 55^\circ, y = 40^\circ$

22 $x = 150^\circ, y = 75^\circ, z = 40^\circ$

23 (a) 120°
(b) 20 cm
(c) 34.64 cm

24 C

25 $x = 48^\circ, y = 21^\circ$

26 (a) 67°
(b) $\angle FPS + \angle PSR = 180^\circ$, FP selari dengan RS./FP is parallel to RS.

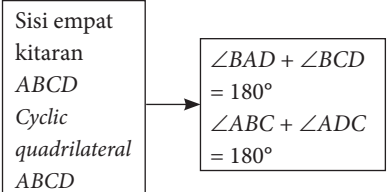
27 $x = 104^\circ, y = 38^\circ$

28 $x = 50^\circ, y = 140^\circ, z = 76^\circ$

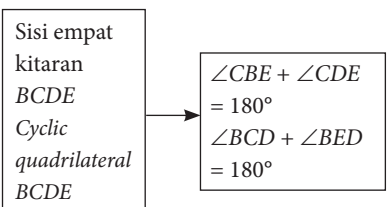
Praktis Sumatif

1 B 2 C 3 C 4 B 5 B

6 (a) (i)



(ii)



(b) $x = 80^\circ, y = 50^\circ, z = 20^\circ, w = 80^\circ$

7 $x = 45^\circ, y = 50^\circ$

8 $x = 50^\circ, y = 70^\circ, z = 45^\circ$

9 $x = 60^\circ, y = 24^\circ, z = 30^\circ$

10 $x = 76^\circ, y = 92^\circ, z = 11^\circ$

Praktis 7

Praktis Formatif

1 C

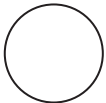
2 (a)



(b)



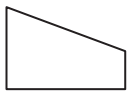
(c)



(d)



3 (a)



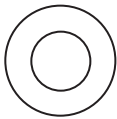
(b)



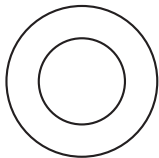
4 (a)



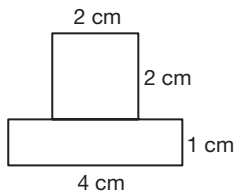
(b)



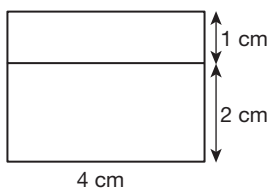
5 (a)



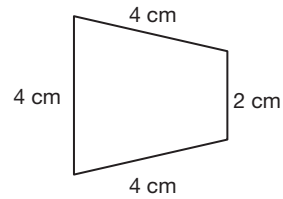
(b)



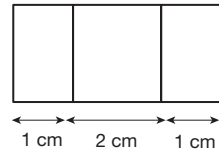
6



7 (a)



(b)



8 (a) ✓

(b) ✗

(c) ✗

(d) ✓

(e) ✓

9 (a) PQ, PS, QR, RS

(b) (i) $\angle PQR, \angle QPS, \angle QRS, \angle PSR, \angle PQT, \angle PST$

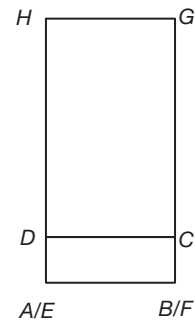
(ii) $\angle PTS, \angle SPT, \angle PTQ, \angle TPQ, \angle QTR, \angle RTS$

(c) (i) sama/same

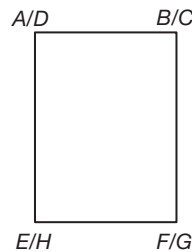
(ii) berbeza/different

10 D

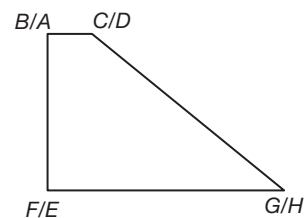
11 (a)



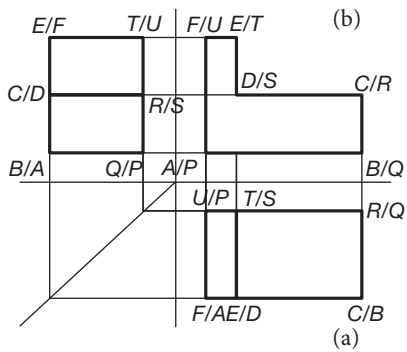
(b) (i)



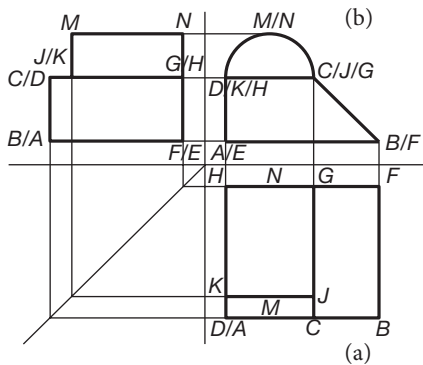
(ii)



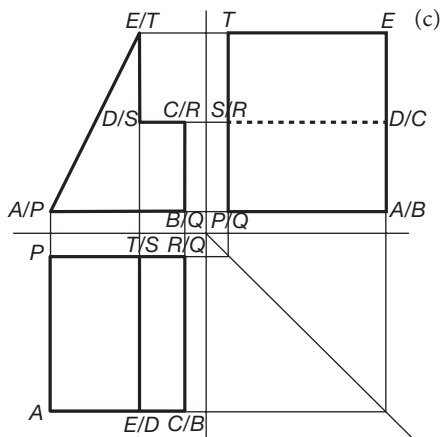
12 (c)



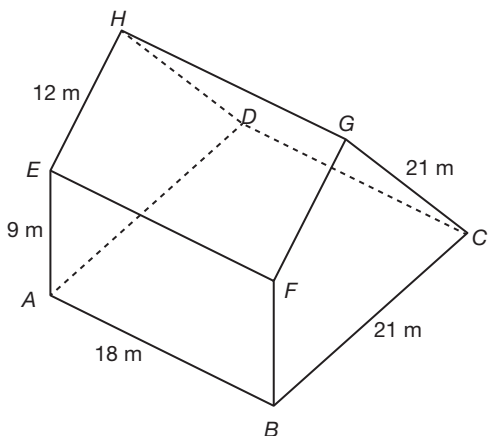
13 (c)



14 (b)



15 (a)

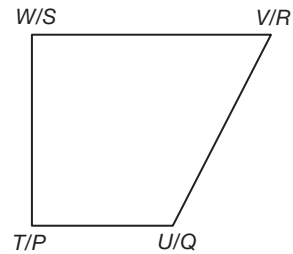


(b) RM16 708

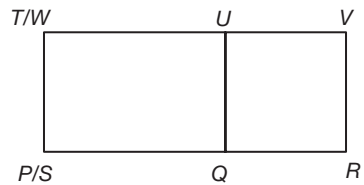
Praktis Sumatif

1 C 2 B 3 A 4 C 5 A

6 (a) (i)

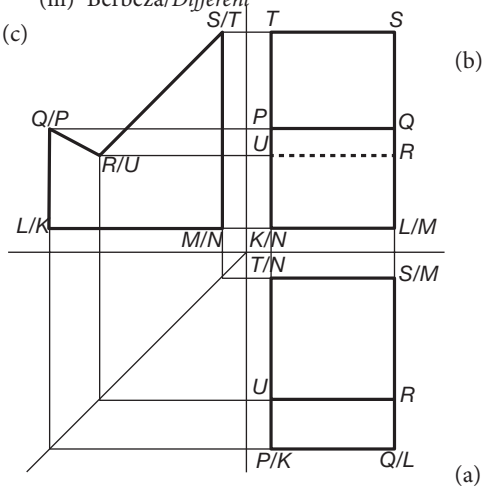


(ii)

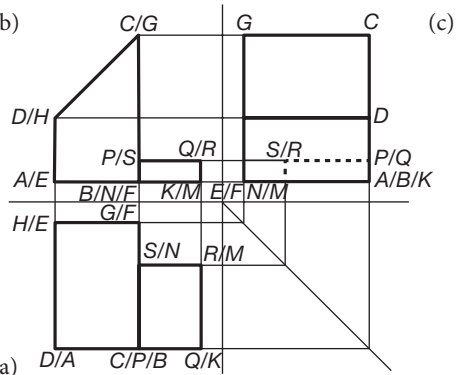


- (b) (i) Sama/Same
- (ii) Sama/Same
- (iii) Sama/Same
- (c) (i) Berbeza/Different
- (ii) Sama/Same
- (iii) Berbeza/Different

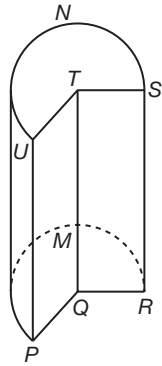
7 (c)



8 (b)



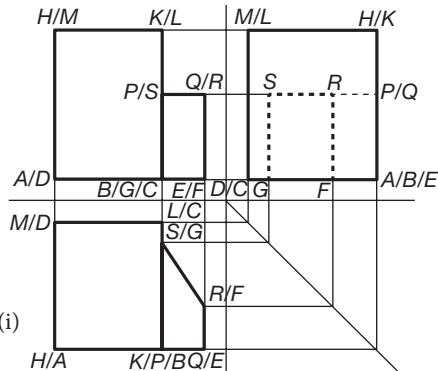
9 (a)



(b) 106°

(c) $6\,210\text{ cm}^3$

10 (a) (ii)



(i)

(iii)

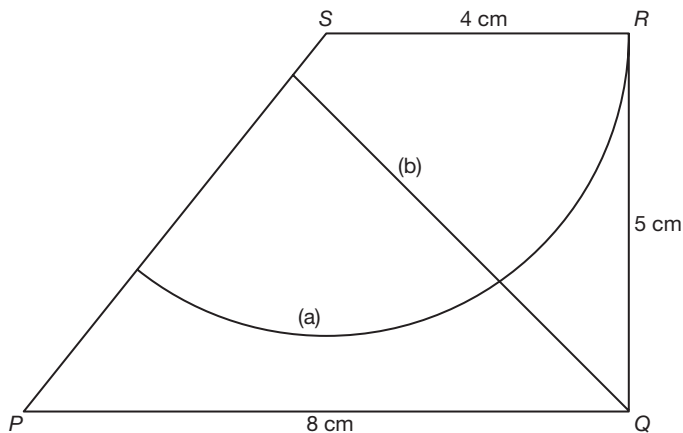
(b) RM5 970

Praktis 8

Praktis Formatif

- 1 A
- 2 sebuah bulatan/a circle
- 3 (a) Satu lengkung /A curve
(b) Satu lengkok bulatan/An arc of a circle

9



(c) Satu lengkung/A curve

(d) Satu garis lurus mengufuk/A horizontal straight line

4 (a) Sfera/Sphere

(b) Silinder/Cylinder

5 D

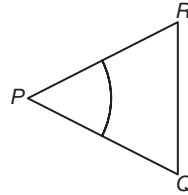
6 Sebuah bulatan dengan pusat A dan jejari 4 cm.

A circle with centre A and radius 4 cm.

7 (a) ✓

8 C

9



10 C

11 D

Praktis Sumatif

1 B

2 C

3 D

4 B

5 A

6 (a) Garis/Line EF

(b) Lengkuk AH bagi suatu bulatan dengan jejari 4 cm dan pusat D.

Arc AH of a circle with radius 4 cm and centre D.

(c) Garis/Line CE

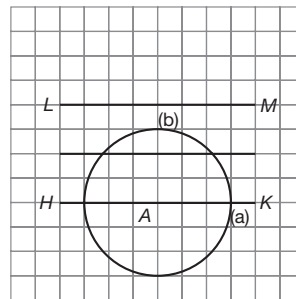
7 (a) Pembahagi dua sama seranjang bagi AB

Perpendicular bisector of AB

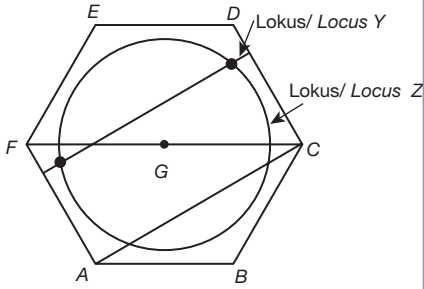
(b) Pembahagi dua sama $\angle BAC$

Bisector of $\angle BAC$

8

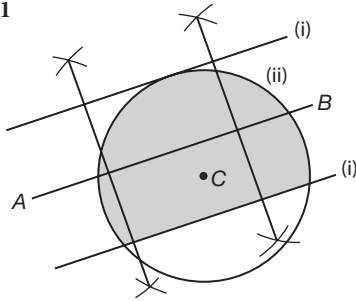


- 10 (a) Garis lurus/Straight line AGD
(b), (c) (i)



- (c) (i) 1

11



Praktis 9

Praktis Formatif

1 B

2 (a) (i) $\frac{5 - (-1)}{1 - (-2)} = 2$

(ii) 3

(b) (i) ✓ (ii) ✓

(c) Kecerunan: m , Pintasan- y : c
Gradient: m , y -intercept: c

3 (a)

4	7
-2	10
-1	0
0	6

4 (a) $-4y = -5x + 8$

$$y = \frac{-5x + 8}{-4}$$

$$y = \frac{5}{4}x - 2$$

(b) $\frac{y}{3} = -\frac{x}{10} + 1$

$$y = -\frac{3}{10}x + 3$$

(c) $\frac{7}{3}x - y = 7$

$$\frac{\frac{7}{3}x - y}{7} = 1$$

$$\frac{x}{3} - \frac{y}{7} = 1$$

5 (a) ✓ (d) ✓

6 (a) $y = \frac{2}{3}x + 3, \frac{2}{3}, 3$

(b) $y = -\frac{3}{2}x + 6, -\frac{3}{2}, 6$

7 (a) $x = 2, y = 5$

$$4x - 3 = 4 \times 2 - 3$$

$$= 5$$

$$y = 4x - 3$$

Titik A yang terletak pada garis

lurus $y = 4x - 3$ memenuhi

persamaan garis lurus

$$y = 4x - 3.$$

Point A that lies on the straight

line $y = 4x - 3$ satisfies the

equation of the straight line

$$y = 4x - 3.$$

(b) $x = -1, y = -3$

$$4x - 3 = 4 \times (-1) - 3$$

$$= -7$$

$$y \neq 4x - 3$$

Titik B yang tidak terletak pada

garis lurus $y = 4x - 3$ tidak

memenuhi persamaan garis

$$\text{lurus } y = 4x - 3.$$

Point B that does not lie on the

straight line $y = 4x - 3$ does not

satisfy the equation of the straight

line $y = 4x - 3.$

8 (a) (4, 1), (-2, 4), (12, -3)

(b) (0, 2), (2, 4), (-3, 9)

9 (a) $y = -x + 2$

(b) $\frac{x}{3} - y = 1$

(c) $x + \frac{1}{2}y = 1$

(d) $3x - y = 6$

10 (a)

AB	$\frac{1}{2}$
CD	$\frac{1}{2}$
EF	$\frac{1}{2}$

(b) sama/equal

11 (a) $x - y = 4$

(b) $x + \frac{y}{5} = 1$

(c) $2x + 3y = 36$

(d) $\frac{x}{4} - y = 1$

12 (a) $y = 5$

(b) $x = 4$

(c) $y = -3$

(d) $x = -3$

13 (a) ✓ (b) ✓

(c) ✗ (d) ✗

14 (a) $y = 4x - 8$

(b) $y = -x + 2$

15 (a) $y = \frac{1}{2}x - 2$

(b) $y = -2x + 5$

16 (a)

-2	2	$-\frac{x}{2} + \frac{y}{2} = 1$
3	-1	$\frac{x}{3} - y = 1$
-3	-2	$-\frac{x}{3} - \frac{x}{2} = 1$
4	2	$\frac{x}{4} + \frac{y}{2} = 1$

17 (a) $m = \frac{-6 - 2}{-1 - 3}$

$$= \frac{-8}{-4} = 2$$

(b) (i) $2 = 2 \times 3 + c$

$$2 = 6 + c$$

$$c = -4$$

(ii) $-6 = 2 \times (-1) + c$

$$-6 = -2 + c$$

$$c = -4$$

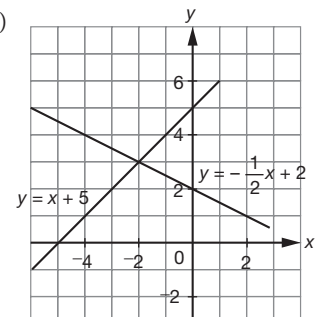
18 (a) $y = x - 8$

(b) $y = 5x + 3$

(c) $y = -3x + 5$

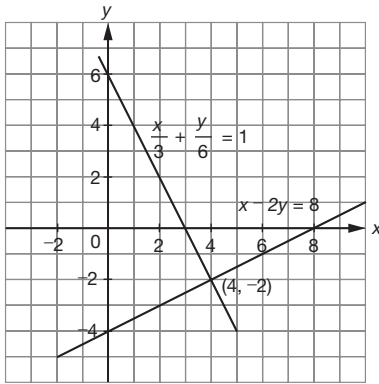
(d) $y = -\frac{x}{4} - 2$

19 (a)



(b) $(-2, 3)$

20 (a)



(b) $(4, -2)$

(c) $(4, -2)$

21 (a) $(2, 3)$

(b) $(-1, -2)$

(c) $(3, -4)$

(d) $(-2, 5)$

22 (a) 4

(b) $y = -2$

(c) $y = -4x + 22$

(d) $(\frac{3}{2}, -2)$

Praktis Sumatif

1 C 2 C 3 A 4 A 5 D

6 (a) $p = -\frac{5}{2}, q \neq 0$

(b) $q = 0, p \neq -\frac{5}{2}$

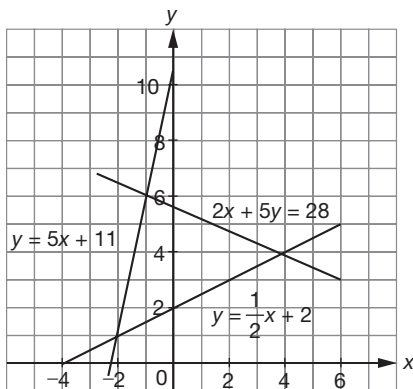
7 7

8 (a) (i) $\frac{x}{2} - \frac{y}{4} = 1$

(ii) $2x - y = -6$

(b) l

9



$(-2, 1), (4, 4), (-1, 6)$

10 $A(3, 5), B(3, 8), C(-2, 0)$

11 $P(-2, 4), R(1, 1), S(-4, -4)$

12 (a) -4

(b) (i) $y = -3$

(ii) $x = -4$

(c) (i) $2x + 3y = -5$

(ii) $2x + 3y = 1$

13 (a) $k = 5, r = 1$

(b) (i) $y = \frac{2}{3}x - 5$

(ii) $y = -x$

(c) $(6, -1)$

14 (a) $y = -2$

(b) $y = -\frac{5}{2}x - 2$

(c) $\frac{21}{5}$

(d) (i) $5x - 3y = 31$

(ii) $(2, -7)$

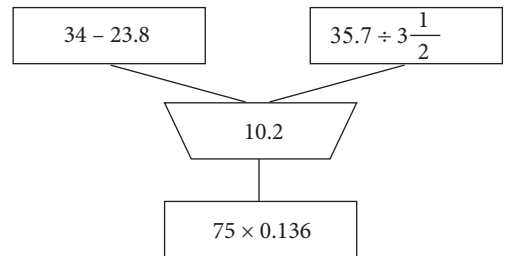
Kertas Model PT3

Bahagian A

- | | | | | |
|------|------|------|------|------|
| 1 B | 2 C | 3 C | 4 C | 5 B |
| 6 B | 7 B | 8 A | 9 C | 10 A |
| 11 B | 12 C | 13 D | 14 B | 15 B |
| 16 B | 17 C | 18 D | 19 A | 20 C |

Bahagian B

21 (a)



(b) Palsu/False

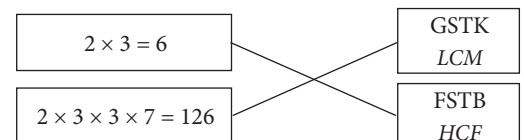
22 (a) LQ

(b) (i) 4

(ii) 5

(iii) 3

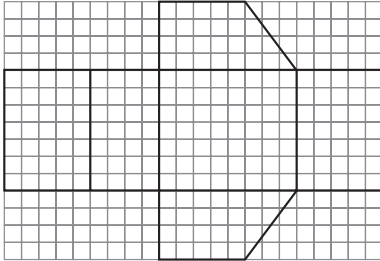
23 (a)



(b) $\angle t = \angle u$, $\angle p = \angle q + \angle s$

24 (a) 182

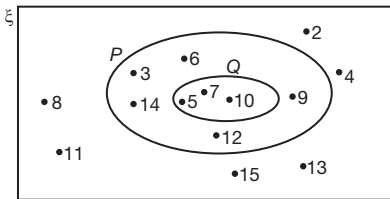
(b)



- 25 (a) (i) ✗ (ii) ✓ (iii) ✓
 (b) sektor minor/minor sector

Bahagian C

- 26 (a) (i) 7.010
 (ii) $4\ 302 \times 10^{-6}$
 (b) (i)



(ii) {2, 4, 8, 11, 13, 15}

(c) (i) $6(3x - 5)(x + 2)$

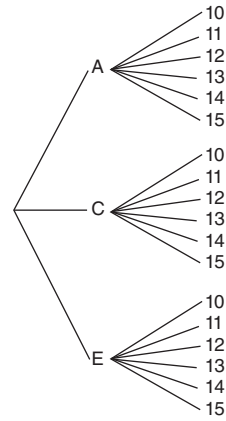
(ii) $\frac{23k - 45}{6k(k - 3)}$

27 (a) -8, -7, -6, -5

(b) (i) $p = \frac{Q}{3m^2}$

(ii) 24

(c) (i)



(ii) (a) $\frac{4}{9}$

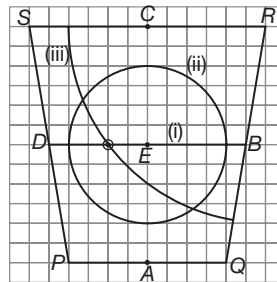
(b) $\frac{1}{3}$

- 28 (a) (i) 22.5°
 (ii) 8
 (b) 20 m
 (c) (i) Mac/Mar

(ii) 250

- 29 (a) (i) 5
 (ii) -1.1, 4.6
 (b) (i) 3.42 m
 (ii) 4.37 m

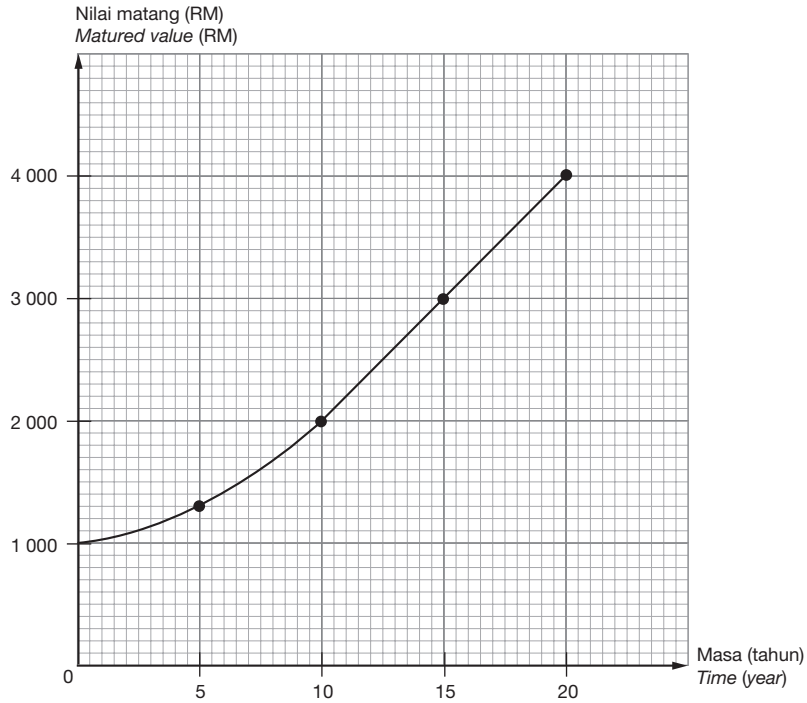
(c)



30 (a) (i)

10	2 061
20	4 248

(ii)

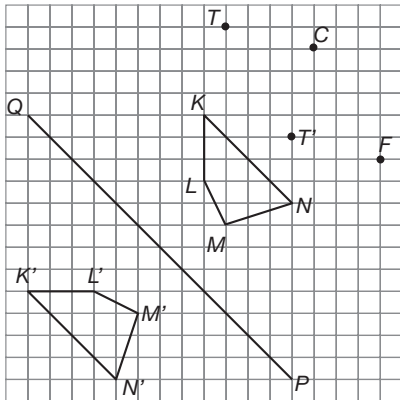


(b) RM2 859

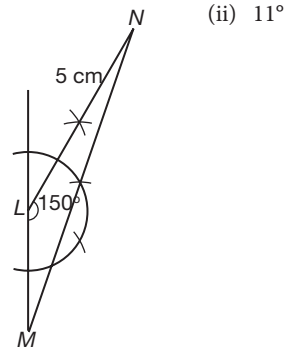
(c) (i) 4

(ii) $y = \frac{4}{3}x + \frac{14}{3}$

31 (a) (i) Lawan arah jam / Anticlockwise
(ii), (iii)



(b) (i)



(c)

