

Jawapan

Praktis 4

Praktis Formatif

1 Jawapan/Answer: D

2 (a) (i) Panjang setiap sisi poligon ABCDEF adalah berbeza.

The length of each side of the polygon ABCDEF is different.

(ii) Setiap sudut pedalaman poligon ABCDEF adalah sama.

Each interior angle of the polygon ABCDEF is the same.

(iii) Poligon ABCDEF adalah sebuah poligon tak sekata.

The polygon ABCDEF is an irregular polygon.

(b) (i) Panjang setiap sisi poligon ABCDEFGHIJ adalah sama.

The length of each side of the polygon ABCDEFGHIJ is the same.

(ii) Setiap sudut pedalaman poligon ABCDEFGHIJ adalah sama.

Each interior angle of the polygon ABCDEFGHIJ is the same.

(iii) Poligon ABCDEFGHIJ adalah sebuah poligon sekata.

The polygon ABCDEFGHIJ is a regular polygon.

3 (a) Bilangan paksi simetri =

Number of axes of symmetry

Bilangan paksi simetri = bilangan sisi

Number of axes of symmetry = number of sides

Poligon KLM sebuah poligon sekata.

8 (a)

	Bilangan sisi, n <i>Number of sides, n</i>	Bilangan segi tiga <i>Number of triangles</i>	Hasil tambah sudut pedalaman <i>Sum of interior angles</i>
(i)	3	1	180°
(ii)	4	2	360°
(iii)	5	3	540°
(iv)	6	4	720°

(b) (i) $n - 2$

(ii) $(n - 2) \times 180^\circ$

Poligon KLM a regular polygon.

(b) Bilangan paksi simetri =
Number of axes of symmetry

Bilangan paksi simetri bilangan sisi

Number of axes of symmetry number of sides

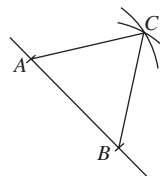
Poligon PQRST sebuah poligon sekata.

Poligon PQRST a regular polygon.

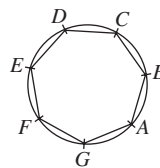
4 (a) ✓

(c) ✓

5



6



7 Sudut pedalaman bagi poligon sekata

Interior angle of regular polygon

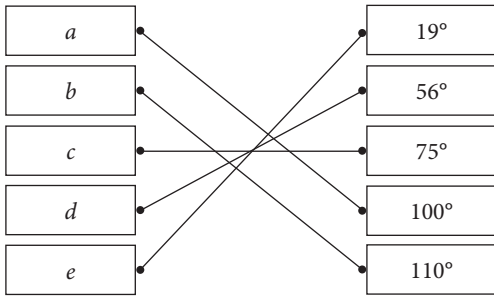
$$= \frac{(8 - 2) \times 180^\circ}{8}$$

$$= 135^\circ$$

$$y = 135^\circ$$

Jawapan/Answer: B

9 (a)



(b) $a + b + c + d + e$
 $= 100^\circ + 110^\circ + 75^\circ + 56^\circ + 19^\circ$
 $= 360^\circ$

10 (a) $p + q + r + s + t + u = 360^\circ$

(b) Hasil tambah sudut-sudut pedalaman bagi poligon
Sum of interior angles of polygon
 $= (6 - 2) \times 180^\circ$
 $= 720^\circ$
 $a + b + c + d + e + f = 720^\circ$

11 Bilangan sisi/Number of sides = 5

Hasil tambah sudut-sudut pedalaman bagi poligon
Sum of interior angles of polygon
 $= (5 - 2) \times 180^\circ$
 $= 540^\circ$
 $x + 70^\circ + 100^\circ + 130^\circ + 140^\circ = 540^\circ$
 $x = 100^\circ$

12 $n = 6$

$$x = \frac{(6 - 2) \times 180^\circ}{6}$$

$$= 120^\circ$$

13 (a) (i) $m + 154^\circ + 132^\circ = 360^\circ$

(ii) $m + 286^\circ = 360^\circ$
 $m = 74^\circ$

(b) (i) $p + 88^\circ + 139^\circ + 20^\circ = 360^\circ$

(ii) $p + 247^\circ = 360^\circ$
 $p = 113^\circ$

14 (a) $x = \frac{360^\circ}{5}$
 $= 72^\circ$

(b) $x = \frac{360^\circ}{12}$
 $= 30^\circ$

15 $20^\circ = \frac{360^\circ}{n}$

$$n = \frac{360^\circ}{20^\circ}$$

$$= 18$$

\therefore Bilangan sisi poligon sekata itu ialah 18.
 \therefore Number of sides of the regular polygon is 18.

16 Sudut pedalaman bagi poligon sekata

Interior angle of regular polygon
 $= \frac{(10 - 2) \times 180^\circ}{10}$
 $= 144^\circ$

$$\angle QRS = 144^\circ$$

$$\angle FRS = 180^\circ - 144^\circ$$

$$= 36^\circ$$

$$x = 180^\circ - 36^\circ - 36^\circ$$

$$= 108^\circ$$

Jawapan/Answer: A

17 Sudut pedalaman bagi poligon PQRST

Interior angle of polygon PQRST

$$= \frac{(5 - 2) \times 180^\circ}{5}$$

$$= 108^\circ$$

$$\angle RST = 108^\circ$$

$$x = \frac{1}{2} \times (180^\circ - 108^\circ)$$

$$= 36^\circ$$

$$\angle QPT = 108^\circ$$

$$108^\circ = y + 63^\circ$$

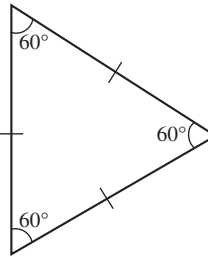
$$y = 45^\circ$$

$$x + y = 36^\circ + 45^\circ$$

$$= 81^\circ$$

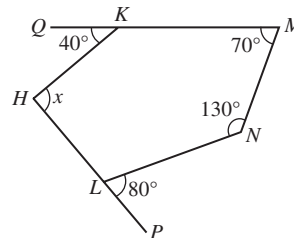
Praktis Sumatif

1



Jawapan/Answer: B

2



$$\angle HLN = 180^\circ - 80^\circ$$

$$= 100^\circ$$

$$\angle HKM = 180^\circ - 40^\circ$$

$$= 140^\circ$$

Hasil tambah sudut-sudut pedalaman bagi HLNMK

Sum of interior angles of HLNMK

$$= (5 - 2) \times 180^\circ$$

$$= 540^\circ$$

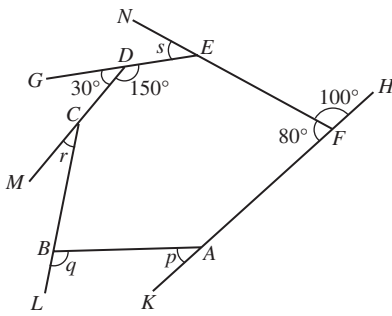
$$x + 140^\circ + 70^\circ + 130^\circ + 100^\circ = 540^\circ$$

$$x + 440^\circ = 540^\circ$$

$$x = 100^\circ$$

Jawapan/Answer: C

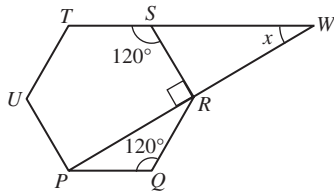
3



$$\begin{aligned}\angle GDM &= 180^\circ - 150^\circ \\ &= 30^\circ \\ \angle EFH &= 180^\circ - 80^\circ \\ &= 100^\circ \\ p + q + r + 30^\circ + s + 100^\circ &= 360^\circ \\ p + q + r + s + 130^\circ &= 360^\circ \\ p + q + r + s &= 230^\circ\end{aligned}$$

Jawapan/Answer: C

4



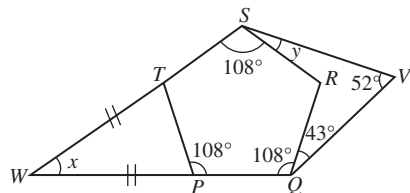
Sudut pedalaman bagi PQRSTU
Interior angle of PQRSTU

$$= \frac{(6 - 2) \times 180^\circ}{6}$$

$$\begin{aligned}&= 120^\circ \\ \angle PRQ &= \frac{1}{2} \times (180^\circ - 120^\circ) \\ &= 30^\circ \\ \angle PRS &= 120^\circ - 30^\circ \\ &= 90^\circ \\ \angle RSW &= 180^\circ - 120^\circ \\ &= 60^\circ \\ x + 60^\circ &= 90^\circ \\ &= 30^\circ\end{aligned}$$

Jawapan/Answer: C

5



Sudut pedalaman bagi PQRST
Interior angle of PQRST

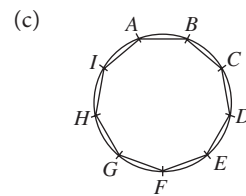
$$= \frac{(5 - 2) \times 180^\circ}{5}$$

$$\begin{aligned}&= 108^\circ \\ \angle TPW &= 180^\circ - 108^\circ \\ &= 72^\circ\end{aligned}$$

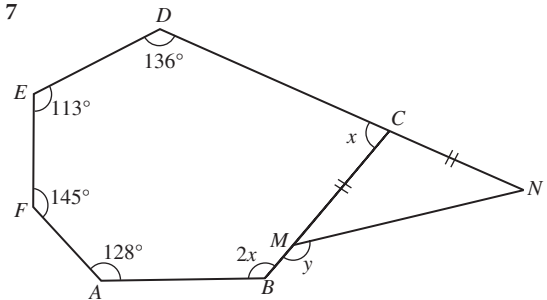
$$\begin{aligned}x &= 180^\circ - 72^\circ - 72^\circ \\ &= 36^\circ \\ 36^\circ + 108^\circ + y + 52^\circ + 43^\circ + 108^\circ &= 360^\circ \\ y + 347^\circ &= 360^\circ \\ y &= 13^\circ\end{aligned}$$

Jawapan/Answer: D

- 6 (a) Bilangan sisi = 9
Number of sides = 9
Bilangan paksi simetri bagi nonagon sekata ialah 9.
Number of axes of symmetry of regular nonagon is 9.
- (b) Sudut pedalaman bagi ABCDEFGHI
Interior angle of ABCDEFGHI
- $$= \frac{(9 - 2) \times 180^\circ}{9}$$
- $$= 140^\circ$$



7



Hasil tambah sudut-sudut pedalaman bagi ABCDEF
Sum of interior angles of ABCDEF

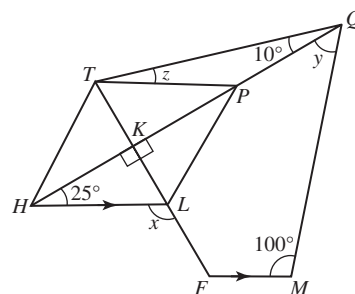
$$= (6 - 2) \times 180^\circ$$

$$= 720^\circ$$

$$\begin{aligned}2x + x + 136^\circ + 113^\circ + 145^\circ + 128^\circ &= 720^\circ \\ 3x + 522^\circ &= 720^\circ \\ 3x &= 198^\circ \\ x &= 66^\circ\end{aligned}$$

$$\begin{aligned}\angle MCN &= 180^\circ - 66^\circ \\ &= 114^\circ \\ \angle CMN &= \frac{1}{2} \times (180^\circ - 114^\circ) \\ &= 33^\circ \\ y &= 180^\circ - 33^\circ \\ &= 147^\circ\end{aligned}$$

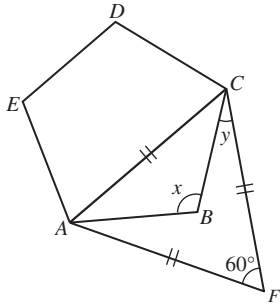
8



$$\begin{aligned}\angle HKL &= 90^\circ \\ x &= 25^\circ + 90^\circ \\ x &= 115^\circ \\ \angle LFM &= 115^\circ \\ y + 100^\circ + 115^\circ + 90^\circ &= 360^\circ \\ y + 305^\circ &= 360^\circ \\ y &= 55^\circ\end{aligned}$$

$$\begin{aligned}\angle KPT &= 25^\circ \\ z + 10^\circ &= 25^\circ \\ z &= 15^\circ\end{aligned}$$

9



Sudut pedalaman bagi $ABCDE$
Interior angle of $ABCDE$

$$= \frac{(5 - 2) \times 180^\circ}{5}$$

$$= 108^\circ$$

$$\begin{aligned}x &= 108^\circ \\ \angle ACB &= \frac{1}{2} \times (180^\circ - 108^\circ) \\ &= 36^\circ \\ y + 36^\circ &= 60^\circ \\ y &= 24^\circ\end{aligned}$$

- 10 (a) Hasil tambah sudut-sudut pedalaman bagi poligon
 $= 1\,260^\circ$
Sum of interior angles of polygon $= 1\,260^\circ$
 $(n - 2) \times 180^\circ = 1\,260^\circ$
 $n - 2 = 7$
 $n = 9$

Sudut pedalaman bagi poligon sekata
Interior angle of regular polygon

$$\begin{aligned}&= \frac{1\,260^\circ}{9} \\ &= 140^\circ \\ x &= 140^\circ\end{aligned}$$

- (b) $y + 140^\circ = 180^\circ$
 $y = 40^\circ$
 $x : y = 140^\circ : 40^\circ$
 $= 7 : 2$