PENYELESAIAN LENGKAP

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 berbeza.
Each interior angle of the polygon ABCDEF is different.

(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 = [3]
Number of axes of symmetry

Bilangan paksi simetri [=] bilangan sisi

Number of axes of symmetry [=] *number of sides*

Poligon *KLM* [ialah] sebuah poligon sekata.

Polygon KLM [*is*] *a regular polygon.*

(b) Bilangan paksi simetri = [1]
Number of axes of symmetry

Bilangan paksi simetri [≠] bilangan sisi

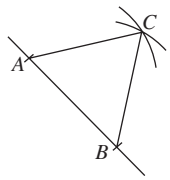
Number of axes of symmetry [≠] *number of sides*

Poligon *PQRST* [bukan] sebuah poligon sekata.

Polygon PQRST [*is not*] *a regular polygon.*

4 (a) ✓
(c) ✓

5



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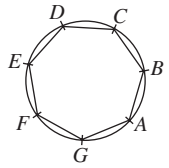


7 Sudut pedalaman bagi oktagon sekata
Interior angle of regular octagon

$= \frac{(8-2)\times 180°}{8}$

$= 135°$

$y = 135°$

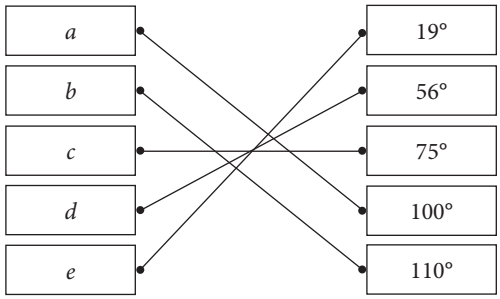
Jawapan/*Answer*: **B**

8 (a)

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

(b) (i) $n - 2$
(ii) $(n - 2) \times 180°$

9 (a)



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

10 (a) $p + q + r + s + t + u = 360°$

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

11 Bilangan sisi/*Number of sides* = 5
Hasil tambah sudut-sudut pedalaman bagi poligon
Sum of interior angles of polygon
$= (5 - 2) \times 180°$
$= 540°$
$x + 70° + 100° + 130° + 140° = 540°$
$x = 100°$

12 $n = 6$

$$x = \frac{(6 - 2) \times 180°}{6}$$
$$= 120°$$

13 (a) (i) $m + 154° + 132° = 360°$
(ii) $m + 286° = 360°$
$m = 74°$

(b) (i) $p + 88° + 139° + 20° = 360°$
(ii) $p + 247° = 360°$
$p = 113°$

14 (a) $x = \frac{360°}{5}$
$= 72°$

(b) $x = \frac{360°}{12}$
$= 30°$

15 $20° = \frac{360°}{n}$

$n = \frac{360°}{20°}$
$= 18$

∴ Bilangan sisi poligon sekata itu ialah 18.
∴ *Number of sides of the regular polygon is* 18.

16 Sudut pedalaman bagi poligon sekata
Interior angle of regular polygon

$$= \frac{(10 - 2) \times 180°}{10}$$
$$= 144°$$

$\angle QRS = 144°$
$\angle FRS = 180° - 144°$
$= 36°$
$x = 180° - 36° - 36°$
$= 108°$

Jawapan/*Answer*: **A**

17 Sudut pedalaman bagi poligon *PQRST*
Interior angle of polygon PQRST

$$= \frac{(5 - 2) \times 180°}{5}$$
$$= 108°$$

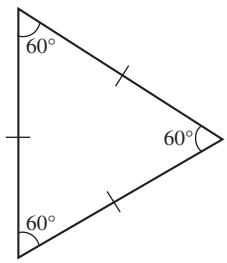
$\angle RST = 108°$

$$x = \frac{1}{2} \times (180° - 108°)$$
$$= 36°$$

$\angle QPT = 108°$
$108° = y + 63°$
$y = 45°$
$x + y = 36° + 45°$
$= 81°$

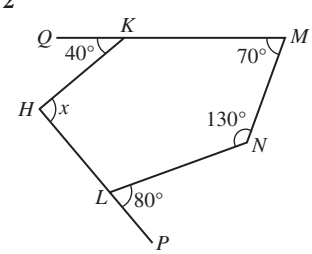
Praktis Sumatif

1



Jawapan/*Answer*: **B**

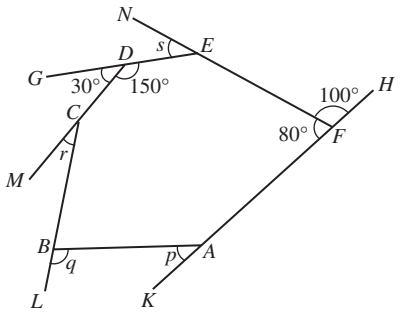
2



$\angle HLN = 180° - 80°$
$= 100°$
$\angle HKM = 180° - 40°$
$= 140°$
Hasil tambah sudut-sudut pedalaman bagi *HLNMK*
Sum of interior angles of HLNMK
$= (5 - 2) \times 180°$
$= 540°$
$x + 140° + 70° + 130° + 100° = 540°$
$x + 440° = 540°$
$x = 100°$

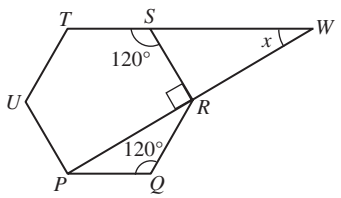
Jawapan/*Answer*: **C**

3



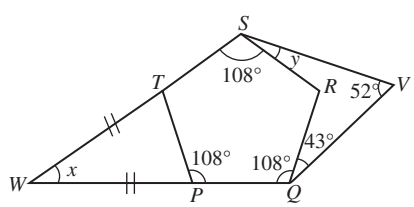
$\angle GDM = 180° - 150°$
$= 30°$
$\angle EFH = 180° - 80°$
$= 100°$
$p + q + r + 30° + s + 100° = 360°$
$p + q + r + s + 130° = 360°$
$p + q + r + s = 230°$
Jawapan/*Answer*: **C**

4



Sudut pedalaman bagi *PQRSTU*
Interior angle of PQRSTU
$= \frac{(6 - 2) \times 180°}{6}$
$= 120°$
$\angle PRQ = \frac{1}{2} \times (180° - 120°)$
$= 30°$
$\angle PRS = 120° - 30°$
$= 90°$
$\angle RSW = 180° - 120°$
$= 60°$
$x + 60° = 90°$
$x = 30°$
Jawapan/*Answer*: **C**

5

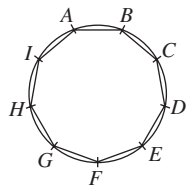


Sudut pedalaman bagi *PQRST*
Interior angle of PQRST
$= \frac{(5 - 2) \times 180°}{5}$
$= 108°$
$\angle TPW = 180° - 108°$
$= 72°$
$x = 180° - 72° - 72°$
$= 36°$
$36° + 108° + y + 52° + 43° + 108° = 360°$
$y + 347° = 360°$
$y = 13°$
Jawapan/*Answer*: **D**

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
$= \frac{(9 - 2) \times 180°}{9}$
$= 140°$

(c)



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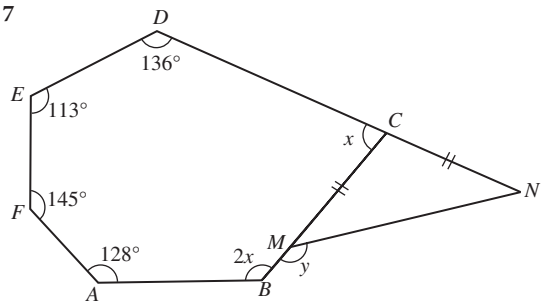
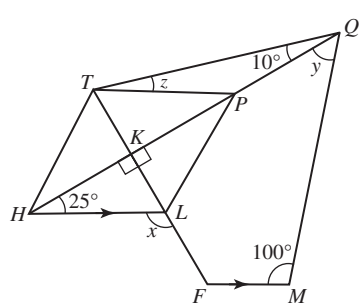


Hasil tambah sudut-sudut pedalaman bagi *ABCDEF*
Sum of interior angles of ABCDEF
$= (6 - 2) \times 180°$
$= 720°$
$2x + x + 136° + 113° + 145° + 128° = 720°$
$3x + 522° = 720°$
$3x = 198°$
$x = 66°$
$\angle MCN = 180° - 66°$
$= 114°$
$\angle CMN = \frac{1}{2} \times (180° - 114°)$
$= 33°$
$y = 180° - 33°$
$= 147°$

8



$\angle HKL = 90°$

$x = 25° + 90°$

$x = 115°$

$\angle LFM = 115°$

$y + 100° + 115° + 90° = 360°$

$y + 305° = 360°$

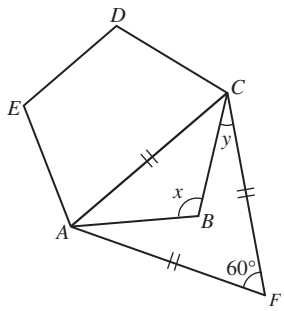
$y = 55°$

$\angle KPT = 25°$

$z + 10° = 25°$

$z = 15°$

9



Sudut pedalaman bagi *ABCDE*

Interior angle of ABCDE

$= \frac{(5 - 2) \times 180°}{5}$

$= 108°$

$x = 108°$

$\angle ACB = \frac{1}{2} \times (180° - 108°)$

$= 36°$

$y + 36° = 60°$

$y = 24°$

10 (a) Hasil tambah sudut-sudut pedalaman bagi poligon $= 1\,260°$

Sum of interior angles of polygon $= 1\,260°$

$(n - 2) \times 180° = 1\,260°$

$n - 2 = 7$

$n = 9$

Sudut pedalaman bagi poligon sekata

Interior angle of regular polygon

$= \frac{1\,260°}{9}$

$= 140°$

$x = 140°$

(b) $y + 140° = 180°$

$y = 40°$

$x : y = 140° : 40°$

$= 7 : 2$