

# Bab 4

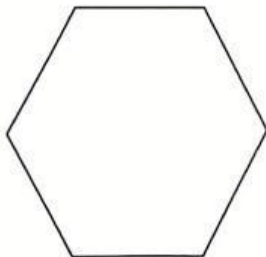
## Poligon Polygon

### Bahagian A

- 1 Antara berikut, padanan yang manakah adalah betul?  
Which of the following matches is correct?

|   | Poligon<br>Polygon   | Sudut pedalaman<br>Interior angle |
|---|----------------------|-----------------------------------|
| A | Pentagon<br>Pentagon | 90°                               |
| B | Heksagon<br>Hexagon  | 128.6°                            |
| C | Oktagon<br>Octagon   | 135°                              |
| D | Nonagon<br>Nonagon   | 144°                              |

- 2 Rajah berikut menunjukkan sebuah poligon sekata.  
The following diagram shows a regular polygon.



Cari bilangan paksi simetri bagi poligon di atas.  
Find the number of axes of symmetry of the polygon above.

- A 5  
B 6  
C 7  
D 8

- 3 Antara poligon berikut, yang manakah mempunyai sudut peluaran 45°?  
Which of the following polygons has an exterior angle of 45°?

- A Dekagon  
Decagon  
B Oktagon  
Octagon  
C Heksagon  
Hexagon  
D Segi empat sama  
Square

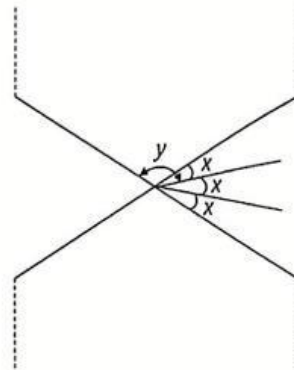
- 4 Rajah berikut menunjukkan sebuah poligon sekata yang tidak lengkap.  
The following diagram shows an incomplete regular polygon.



Apakah poligon di atas?  
What is the polygon above?

- A Segi tiga  
Triangle  
B Pentagon  
Pentagon  
C Heksagon  
Hexagon  
D Heptagon  
Heptagon

- 5 Rajah berikut menunjukkan dua buah poligon sekata yang sama tetapi tidak lengkap.  
The following diagram shows two similar regular polygons but incomplete.



Diberi poligon tersebut mempunyai enam paksi simetri, cari nilai y.  
Given that the polygon has six axes of symmetry, find the value of y.

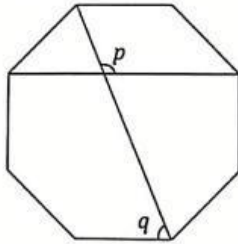
- A 20°  
B 60°  
C 120°  
D 140°

- 6 Hitungkan sudut pedalaman bagi sebuah dekadagon sekata.  
Calculate the interior angle of a regular decagon.

- A 144°  
B 140°  
C 135°  
D 120°

- 7 Rajah berikut menunjukkan sebuah oktagon sekata.

The following diagram shows a regular octagon.

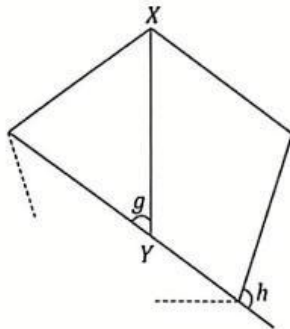


Cari nilai  $p + q$ .  
Find the value of  $p + q$ .

- A  $180^\circ$  C  $112.5^\circ$   
B  $135^\circ$  D  $67.5^\circ$

- 8 Rajah berikut menunjukkan sebuah pentagon sekata yang tidak lengkap.

The following diagram shows an incomplete regular pentagon.



Diberi XY adalah paksi simetri pentagon, hitung nilai  $g$  dan nilai  $h$ .

Given that XY is the axis of symmetry of pentagon, calculate the values of  $g$  and  $h$ .

|   | $g$        | $h$         |
|---|------------|-------------|
| A | $36^\circ$ | $72^\circ$  |
| B | $36^\circ$ | $108^\circ$ |
| C | $54^\circ$ | $72^\circ$  |
| D | $54^\circ$ | $108^\circ$ |

- 9 Diberi sudut pedalaman bagi dua buah poligon masing-masing ialah  $120^\circ$  dan  $144^\circ$ . Jika kedua-dua poligon bercantum pada sisinya, cari jumlah bilangan sisi gabungan bentuk itu.

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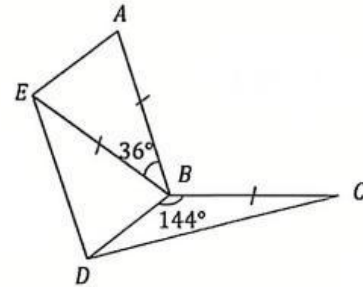
Given the interior angles of two polygons are  $120^\circ$  and  $144^\circ$  respectively. If both polygons are joined by their sides, find the total number of sides of the composite shape.

- A 6  
B 10  
C 14  
D 16

- 10 Dalam rajah berikut, ABC ialah sebuah poligon sekata yang tidak lengkap dan ABDE ialah sebuah rombus.

KBAT

In the following diagram, ABC is an incomplete regular polygon and ABDE is a rhombus.



Cari bilangan sisi poligon itu.

Find the number of sides of the polygon.

- A 4  
B 5  
C 6  
D 8

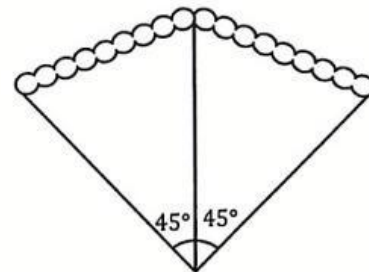
- 11 Sudut pedalaman dan sudut peluaran sebuah poligon masing-masing ialah  $7a$  dan  $2a$ . Cari bilangan sisi poligon itu.

The interior angle and exterior angle of a polygon is  $7a$  and  $2a$  respectively. Find the number of sides of the polygon.

- A 9  
B 8  
C 7  
D 6

- 12 Rajah berikut menunjukkan dua keping kek yang dipotong daripada sebuah kek berbentuk poligon.

The following diagram shows two slices of cake cut out from a polygonal cake.



Kek asal tersebut dibahagikan sama rata kepada beberapa keping, cari bilangan kepingan kek dipotong daripada kek asal itu.

The original cake is equally cut into few slices, find the number of slices of cake are cut from the original cake.

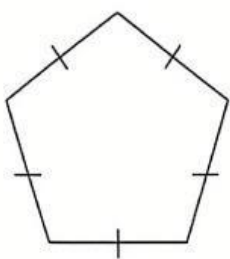
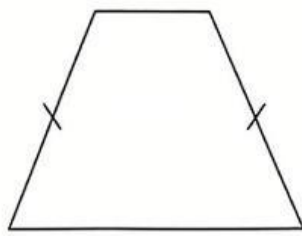
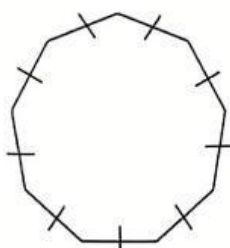
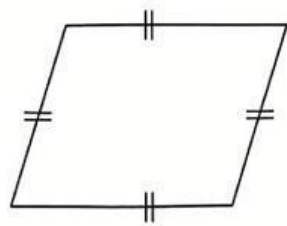
- A 4 C 8  
B 6 D 10

**Bahagian B**

- 1 Tandakan (✓) bagi poligon sekata dan (X) bagi poligon tak sekata.  
Mark (✓) for the regular polygons and (X) for the irregular polygons.

[4 markah/ marks]

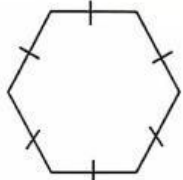
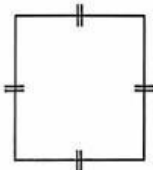
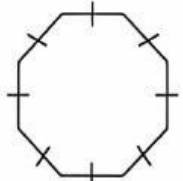
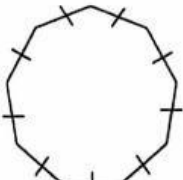
Jawapan/ Answer:

|                                                                                              |                                                                                                |
|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <p>(a)</p>  | <p>(b)</p>   |
| <p>(c)</p>  | <p>(d)</p>  |

- 2 Padankan poligon sekata berikut dengan namanya yang betul.  
Match the following regular polygons with their correct names.

[4 markah/ marks]

Jawapan/ Answer:

|                                                                                     |   |                                   |
|-------------------------------------------------------------------------------------|---|-----------------------------------|
|  | • | <p>Segi empat sama<br/>Square</p> |
|  | • | <p>Oktagon<br/>Octagon</p>        |
|  | • | <p>Heksagon<br/>Hexagon</p>       |
|  | • | <p>Nonagon<br/>Nonagon</p>        |