

PENYELESAIAN LENGKAP

PRAKTIS 1

Praktis Formatif

1

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|-----|-------|---------|-----------|
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| • • | • • | • • • | • • • • |

Pertama
First
3 titik
3 dots

Kedua
Second
5 titik
5 dots

Ketiga
Third
7 titik
7 dots

Keempat
Fourth
9 titik
9 dots

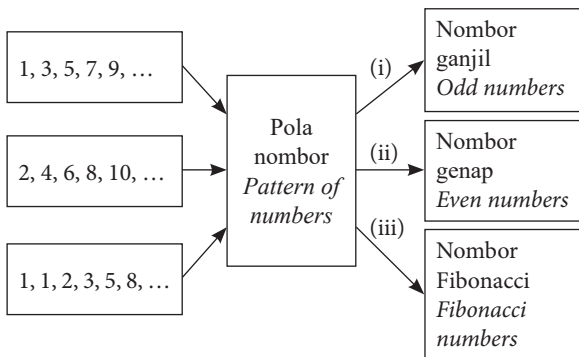
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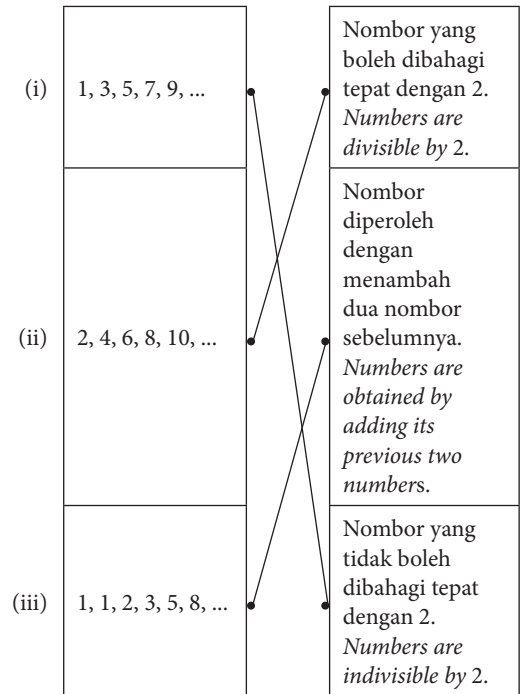
Kelima
Fifth
11 titik
11 dots

Jawapan/Answer: **B**

- 2 (a) Tambah 3 kepada nombor sebelumnya.
Add 3 to its previous number.
- (b) Tolak 5 daripada nombor sebelumnya.
Subtract 5 from its previous number.
- (c) Bahagi 2 kepada nombor sebelumnya.
Divide 2 to its previous number.
- (d) Darab 4 kepada nombor sebelumnya.
Multiply 4 to its previous number.
- 3 (a)



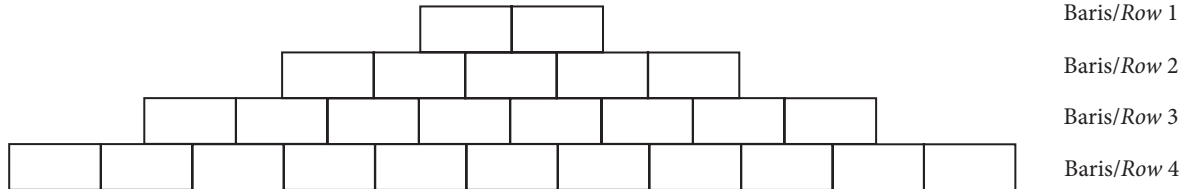
(b)



- (d) $\times 0.3 \quad \times 0.3 \quad \times 0.3 \quad \times 0.3 \quad \times 0.3$
 $1, 0.3, 0.09, 0.027, 0.0081, 0.00243, \dots$
 Darab 0.3 kepada nombor sebelumnya.
Multiply 0.3 to its previous number.

11 $22 = 13(1) + 9$
 $35 = 13(2) + 9$
 $48 = 13(3) + 9$
 $61 = 13(4) + 9$
 \vdots
 $T_n = 13n + 9, n = 1, 2, 3, 4, \dots$
 Jawapan/Answer: **B**

12



- (a) $+3 \quad +3 \quad +3 \quad +3$
 $2, 5, 8, 11, 14, \dots$
 Bilangan batu-bata pada baris kelima ialah 14.
The number of bricks on the fifth row is 14.

- (b) (i) $2, 5, 8, 11, \dots$
 (ii) Baris 1 mempunyai 2 keping batu-bata. Baris berikutnya mempunyai 3 keping batu-bata lebih daripada baris sebelumnya.
Row 1 has 2 bricks. Its subsequent row has 3 bricks more than its previous row.
 (iii) $2 = 3(1) - 1$
 $5 = 3(2) - 1$
 $8 = 3(3) - 1$
 $11 = 3(4) - 1$
 \vdots
 $T_n = 3n - 1, n = 1, 2, 3, 4, \dots$

- 13 (a) $3 = 5(1) - 2$
 $8 = 5(2) - 2$
 $13 = 5(3) - 2$
 $18 = 5(4) - 2$
 $23 = 5(5) - 2$
 (b) $T_n = 5n - 2, n = 1, 2, 3, 4, \dots$

- 14 (a) $T_1 = 17 = 4 \times 1 + 13$
 $T_2 = 21 = 4 \times 2 + 13$
 $T_3 = 25 = 4 \times 3 + 13$
 $T_n = 4 \times n + 13, n = 1, 2, 3, 4, \dots$
 (b) (i) $T_{17} = 4 \times 17 + 13$
 $= 68 + 13$
 $= 81$
 (ii) $T_{45} = 4 \times 45 + 13$
 $= 180 + 13$
 $= 193$

15 (a) $+24 \quad +24 \quad +24 \quad +24$
 $65, 89, 113, 137, x$
 $x = 137 + 24$
 $= 161$

Beg 5 mengandungi 161 biji guli.
Bag 5 contains 161 marbles.

- (b) $65 = 24 \times 1 + 41$
 $89 = 24 \times 2 + 41$
 $113 = 24 \times 3 + 41$
 $137 = 24 \times 4 + 41$
 \vdots
 $T_n = 24 \times n + 41, n = 1, 2, 3, 4, \dots$
 (c) (i) $T_{16} = 24 \times 16 + 41$
 $= 384 + 41$
 $= 425$
 (ii) $T_n = 24 \times n + 41$
 $1 \ 313 = 24 \times n + 41$
 $1 \ 272 = 24n$
 $n = 53$

Praktis Sumatif

1

$$\begin{array}{ccccccccc} & +4 & +4 & +4 & +4 & +4 & +4 & & \\ \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \\ 25, & 29, & 33, & 37, & m, & n, & 49, & \dots \end{array}$$

$$\begin{aligned} m &= 37 + 4 \\ &= 41 \\ n &= 41 + 4 \\ &= 45 \\ m + n &= 41 + 45 \\ &= 86 \end{aligned}$$

Jawapan/Answer: C

2

$$\begin{array}{ccccccccc} & -20 & -20 & -20 & -20 & -20 & & & \\ \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \\ 150, & 130, & 110, & 90, & 70, & 50, & \dots \end{array}$$

Dua nombor yang berikutnya ialah 70 dan 50.
The next two numbers are 70 and 50.

$$70 + 50 = 120$$

Jawapan/Answer: D

3

$$\begin{array}{ccccccccc} & \times 3 & \times 3 & \times 3 & \times 3 & \times 3 & & & \\ \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \\ 1, & 3, & 9, & 27, & 81, & p, & \dots \end{array}$$

$$\begin{aligned} p &= 81 \times 3 \\ &= 243 \end{aligned}$$

Jawapan/Answer: B

4

$$\begin{array}{ccccccccc} & +7 & +14 & +21 & +28 & +35 & & & \\ \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \\ -41, & -34, & -20, & 1, & k, & 64, & \dots \end{array}$$

$$\begin{aligned} k &= 1 + 28 \\ &= 29 \end{aligned}$$

Jawapan/Answer: B

5

$$\begin{aligned} &7, 14, 21, 28, 35, \dots \\ &= 7(1), 7(2), 7(3), 7(4), 7(5), \dots \end{aligned}$$

Sebutan ke-15

The 15th term

$$= 7(15)$$

$$= 105$$

Jawapan/Answer: C

6 (a)

$$\begin{aligned} T_1 &= 2 = 7 \times 1 - 5 \\ T_2 &= 9 = 7 \times 2 - 5 \\ T_3 &= 16 = 7 \times 3 - 5 \\ T_4 &= 23 = 7 \times 4 - 5 \\ &\vdots \end{aligned}$$

$$T_n = 7 \times n - 5, n = 1, 2, 3, 4, \dots$$

(b)

$$\begin{aligned} T_{10} &= 7 \times 10 - 5 \\ &= 65 \end{aligned}$$

$$\begin{aligned} T_{20} &= 7 \times 20 - 5 \\ &= 135 \end{aligned}$$

$$\begin{aligned} T_{50} &= 7 \times 50 - 5 \\ &= 345 \end{aligned}$$

7

$$T_1 = 74 = 82 - 8 \times 1$$

$$T_2 = 66 = 82 - 8 \times 2$$

$$T_3 = 58 = 82 - 8 \times 3$$

$$T_4 = 50 = 82 - 8 \times 4$$

⋮

$$T_n = 82 - 8 \times n, n = 1, 2, 3, 4, \dots$$

$$T_8 = 82 - 8 \times 8$$

$$= 18$$

$$T_{36} = 82 - 8 \times 36$$

$$= -206$$

8 (a)

| Bilangan segi empat sama Number of squares | Bilangan bulatan Number of circles | Pola Pattern |
|---|---------------------------------------|--------------------------|
| 1 | 4 | $2 \times \boxed{1} + 2$ |
| 2 | 6 | $2 \times \boxed{2} + 2$ |
| 3 | 8 | $2 \times \boxed{3} + 2$ |
| 4 | 10 | $2 \times \boxed{4} + 2$ |

(b) $T_n = 2n + 2, n = 1, 2, 3, 4, \dots$

(c) (i) Apabila/When $n = 25, T_n = 2(25) + 2 = 52$

(ii) $T_n = 70$

$$2n + 2 = 70$$

$$2n = 68$$

$$n = 34$$