# Penyelesaian Lengkap

## Bahagian A

**1** Perimeter $= 8 + 2(4 + 6 + 2 + 2) + 2 + 2 + 6 + 9$
$= 55$ cm
Jawapan/*Answer*: C

**2** $23 + 29 + 41 + x = 130$
$93 + x = 130$
$x = 37$
Jawapan/*Answer*: C

**3** Perimeter longkang
*Perimeter of the drain*
$= 2 \times 80 + 2 \times 50$
$= 260$
Jumlah kos/*Total cost*
$= RM15 \times 260$
$= RM3\ 900$
Jawapan/*Answer*: A

**4** Luas segi tiga
*Area of triangle*
$= \dfrac{1}{2} \times 13 \times 8$
$= 52$ cm$^2$
Jawapan/*Answer*: B

**5** Luas segi tiga $= 24$
*Area of triangle* $= 24$
$\dfrac{1}{2} \times x \times 4 = 24$
$2x = 24$
$x = 12$
Jawapan/*Answer*: D

**6** Luas trapezium
*Area of trapezium*
$= \dfrac{1}{2} \times (13 + 19) \times 9$
$= 144$ cm$^2$
Jawapan/*Answer*: A

**7** Luas kawasan berlorek
*Area of shaded region*
$= \dfrac{1}{2} \times (1 + 7 + 5) \times 10 - 5 \times 7$
$= 65 - 35$
$= 30$ cm$^2$
Jawapan/*Answer*: A

**8** Panjang sisi segi empat sama
*Length of the sides of the square*
$= \dfrac{24}{4}$
$= 6$ cm

Luas segi empat sama
*Area of square*
$= 6 \times 6$
$= 36$ cm$^2$
Jawapan/*Answer*: D

**9** Lebar dinding/*Width of the wall*
$= \dfrac{(16 - 2 - 2)}{2}$
$= 6$ cm
Luas dinding/*Area of the wall*
$= 6 \times 2$
$= 12$ cm$^2$
Jumlah bayaran/*Total payment*
$= RM2.50 \times 12$
$= RM30$
Jawapan/*Answer*: A

**10** Panjang/*Length* $= 2x$
Lebar/*Width* $= x$
Luas/*Area* $= 128$ cm$^2$
$x \times 2x = 128$
$2x^2 = 128$
$x^2 = 64$
$x = \sqrt{64} = 8$
Perimeter $= 8 + 8 + 2(8) + 2(8)$
$= 48$ cm
Jawapan/*Answer*: B

## Bahagian B

**1** (a) 13 unit$^2$/*units*$^2$
(b) 14 unit$^2$/*units*$^2$
(c) 12 unit$^2$/*units*$^2$
(d) 12 unit$^2$/*units*$^2$

**2** (a) Perimeter $= 9 + 10 + 23 + 4 + 17 + 4$
$= 67$ cm
(b) Perimeter $= 6 + 6 + 6 + 17$
$= 35$ cm
(c) Perimeter $= 9 + 9 + 12 + 7 + 15$
$= 52$ cm
(d) Perimeter $= 22 + 15 + 13$
$= 50$ cm

**3** (a) (i) Panjang tapak $= 6$ cm
*Length of base* $= 6$ cm
(ii) Tinggi $= 8$ cm
*Height* $= 8$ cm
(b) (i) Luas kawasan berlorek
*Area of shaded region*
$= \dfrac{1}{2} \times (10 + 18) \times 12 - \dfrac{1}{2} \times 10 \times 12$
$= 168 - 60$
$= 108$ cm$^2$    [✗]

(ii) Luas kawasan berlorek
*Area of shaded region*

$$= \frac{1}{2} \times 42 \times 30 - \frac{1}{2} \times 6 \times 30$$
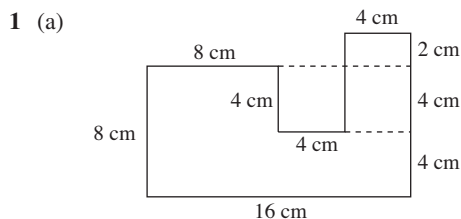
$$= 630 - 90$$

$$= 540 \text{ cm}^2 \qquad [\checkmark]$$

**4** (a) Perimeter bentuk
*Perimeter of the shape*

$$= 7 + 5 + 16 + 14 + 9 + 14 + 6$$

$$= 71 \text{ cm}$$

PALSU/*FALSE*

(b) Luas segi empat selari *DCFE*
*Area of parallelogram DCFE*

$$= 9 \times 11$$

$$= 99 \text{ cm}^2$$

PALSU/*FALSE*

(c) Luas trapezium *ABCD*
*Area of trapezium ABCD*

$$= \frac{1}{2} \times (7 + 9) \times 5$$

$$= 40 \text{ cm}^2$$

BENAR/*TRUE*

(d) Luas bentuk
*Area of the shape*

$$= 99 + 40 + \left( \frac{1}{2} \times 14 \times 11 \right)$$

$$= 99 + 40 + 77$$
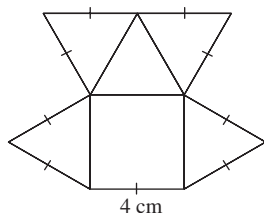
$$= 216 \text{ cm}^2$$

BENAR/*TRUE*

### Bahagian C

**1** (a)



$$8 + 8 + 4 + 4 + 4 + 6 + 10 + 16 = 60 \text{ cm}$$

(b) Lebar/*Width* = $x$ cm
Panjang/*Length* = $2x$ cm
Perimeter = $2(2x) + 2x$

$$36 = 6x$$

$$x = 6$$

Luas/*Area* = $6 \times 2(6) = 72 \text{ cm}^2$

(c) Panjang sisi segi empat sama
*Length of sides of the square*

$$\sqrt{64} = 8 \text{ cm}$$



Perimeter = $9 \times 8 = 72$ cm

(d) Luas lelayang/*Area of kite* = 28

$$\frac{1}{2} \times 7 \times x = 28$$

$$7x = 56$$

$$x = 8 \text{ cm}$$

**2** (a) Perimeter rombus *ABCD* = Perimeter trapezium *PQRS*
*Perimeter of rhombus ABCD = Perimeter of trapezium PQRS*

$$4 \times 9 = 12 + 3x$$

$$3x = 24$$

$$x = 8$$

Luas trapezium *PQRS*
*Area of trapezium PQRS*

$$= \frac{1}{2} \times (8 + 12) \times 7$$

$$= 70 \text{ cm}^2$$

(b) Luas segi empat selari *ABCD*
*Area of parallelogram ABCD*

$$= 12 \times (18 + x)$$

$$= (216 + 12x) \text{ cm}^2$$

Luas segi tiga *EFG*
*Area of triangle EFG*

$$= \frac{1}{2} \times 18 \times 4$$

$$= 36 \text{ cm}^2$$

Luas segi empat tepat *EGHD*
*Area of rectangle EGHD*

$$= 18 \times 8$$

$$= 144 \text{ cm}^2$$

Luas kawasan berlorek = 60 cm²
*Area of shaded region* = 60 cm²

$$216 + 12x - 60 = 36 + 144$$

$$156 + 12x = 180$$

$$12x = 24$$

$$x = 2$$

(c) Perimeter segi empat tepat
*Perimeter of rectangle*

$$= 2(9 + 5)$$

$$= 28 \text{ cm}$$

Perimeter rombus = $4x$
*Perimeter of rhombus* = $4x$

$$4x = 28$$

$$x = 7 \text{ cm}$$

Luas rombus
*Area of rhombus*

$$= 7 \times 6$$

$$= 42 \text{ cm}^2$$