Jawapan

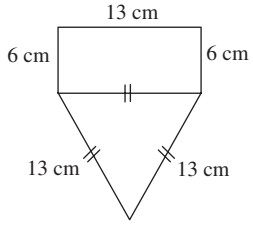
Praktis 10

Praktis Formatif

1 Perimeter $= 10 + 9 + 4 + 6$
$= 29$ cm
Jawapan/*Answer*: **A**

2 (a) Perimeter $= 2 + 4 + 4 + 12$
$= 22$ cm
(b) Perimeter $= 7 + 5 + 6 + 10$
$= 28$ cm
(c) Perimeter $= 6 + 7 + 6 + 5$
$= 24$ cm

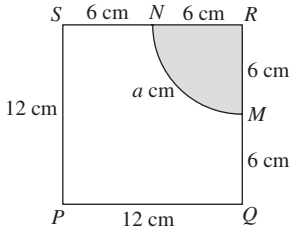
3



Perimeter $= 13 + 6 + 13 + 13 + 6$
$= 51$ cm

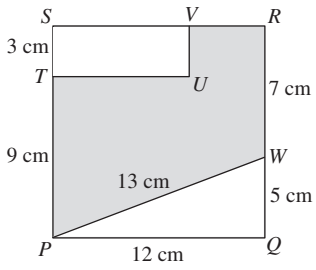
4 Perimeter $KLMN = 2(12 + 4)$
$= 32$ cm
$4x = 32$
$x = 8$
Panjang sisi segi empat sama
Length of sides of square
$= 8$ cm

5



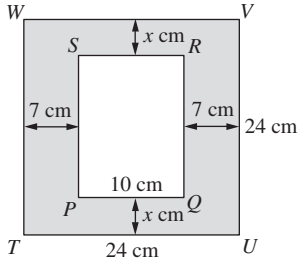
$a + 6 + 6 = 28$
$a + 12 = 28$
$a = 16$
Perimeter bagi bahagian kad *PQMNS*
Perimeter of the portion of card PQMNS
$= 16 + 6 + 12 + 16 + 6$
$= 56$ cm

6



Perimeter bagi rantau berlorek
Perimeter of the shaded region
$= 13 + 7 + 12 + 3 + 9$
$= 44$ cm

7



$4 \times 24 + 2(10 + 24 - 2x) = 152$
$96 + 68 - 4x = 152$
$164 - 4x = 152$
$4x = 12$
$x = 3$

8 A: Luas/*Area* $= 12 \times 6$
$= 72$ cm^2
B: Luas/*Area* $= \frac{1}{2} \times (10 + 4) \times 9$
$= 63$ cm^2
C: Luas/*Area* $= \frac{1}{2} \times 18 \times 8$
$= 72$ cm^2
D: Luas/*Area* $= \sqrt{72} \times \sqrt{72}$
$= 72$ cm^2
Jawapan/*Answer*: **B**

9 24 unit^2/*units*^{2}

10 (a) Luas/*Area* $= \frac{1}{2} \times (4 + 6) \times 3$
$= 15$ cm^2
(b) Luas/*Area* $= 4 \times 8$
$= 32$ cm^2
(c) Luas/*Area* $= 2 \times \frac{1}{2} \times 5 \times 8$
$= 40$ cm^2
(d) Luas/*Area* $= \frac{1}{2} \times (6 + 9) \times 6$
$= 45$ cm^2

11 (a) Luas trapezium *ABCD*
Area of trapezium ABCD
$= \frac{1}{2} \times (48 + 32) \times 25$
$= 1\,000 \text{ cm}^2$

(b) Luas segi empat selari *DEFG*
Area of parallelogram DEFG
$= 16 \times 15$
$= 240 \text{ cm}^2$

(c) Luas rantau berlorek
Area of the shaded region
$= 1\,000 - 240$
$= 760 \text{ cm}^2$

12 Luas/*Area* $= 3 \times 20 + \frac{1}{2} \times (6 + 14) \times 5 + 8 \times 12$
$= 60 + 50 + 96$
$= 206 \text{ cm}^2$

13 A: Perimeter $= 4 \times 10$
$= 40$ cm

B: Perimeter $= 2(20 + 5)$
$= 50$ cm

C: Perimeter $= 2(25 + 4)$
$= 58$ cm

D: Perimeter $= 2(12.5 + 8)$
$= 41$ cm

Jawapan/*Answer*: **C**

14 Perimeter *P* $= 2(4 + 3)$
$= 14$ cm

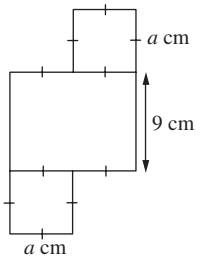
Perimeter *Q* $= 2(6 + 2)$
$= 16$ cm

Perimeter *R* $= 2(12 + 1)$
$= 26$ cm

(a) *P*, *Q*, *R*

(b) Perimeter bagi segi empat tepat dengan luas yang sama bertambah apabila beza antara ukuran panjang dengan lebar bertambah.
The perimeter of the rectangle with the same area increases when the difference between the length and the width increases.

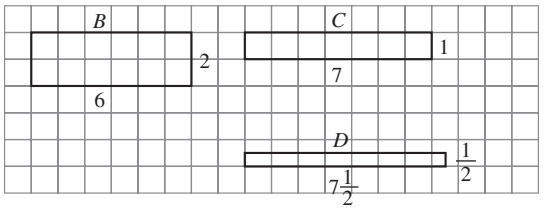
15



$8a + 9 + 9 = 66$
$8a = 48$
$a = 6$

Luas/*Area* $= 2 \times 6 \times 6 + 9 \times 12$
$= 72 + 108$
$= 180 \text{ cm}^2$

16



(b)

Segi empat tepat *Rectangle*	Panjang *Length* (unit)	Lebar *Width* (unit)	Perimeter (unit)	Luas (unit^2) *Area* (units^2)
A	5	3	16	15
B	6	2	16	12
C	7	1	16	7
D	$7\frac{1}{2}$	$\frac{1}{2}$	16	$3\frac{3}{4}$

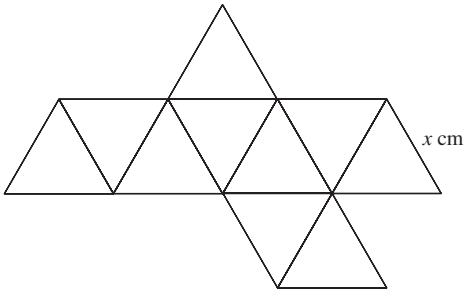
(c) Bagi segi empat tepat dengan perimeter yang sama, luas segi empat tepat berkurang apabila beza antara panjang dengan lebar bertambah.
For rectangles with the same perimeter, the area of rectangle decreases when the difference between the length and width increases.

Praktis Sumatif

1 Perimeter $= 13 + 4 + 12 + 5 + 4$
$= 38$ cm

Jawapan/*Answer*: C

2

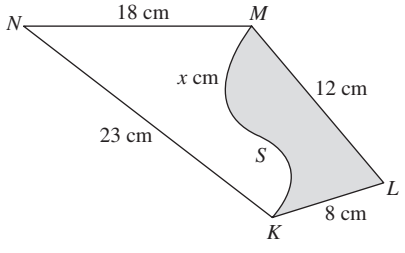


$3x = 39$
$x = 13$

Perimeter $= 12 \times 13$
$= 156$ cm

Jawapan/*Answer*: **B**

3



$x + 8 + 12 = 31$

$x + 20 = 31$

$x = 11$

Perimeter bagi kawasan berlorek
Perimeter of the shaded region
$= 11 + 18 + 23$
$= 52$ cm
Jawapan/*Answer*: **B**

4 Luas/*Area of PQR* $= \frac{1}{2} \times 6 \times 4$

$= 12$ cm^2

A: Luas/*Area* $= 24 - 2 \times 5$

$= 24 - 10$

$= 14$ cm^2

B: Luas/*Area* $= 24 - 2 \times 3 - 1 \times 6$

$= 24 - 6 - 6$

$= 12$ cm^2

C: Luas/*Area* $= 24 - \frac{1}{2} \times 3 \times 4$

$= 24 - 6$

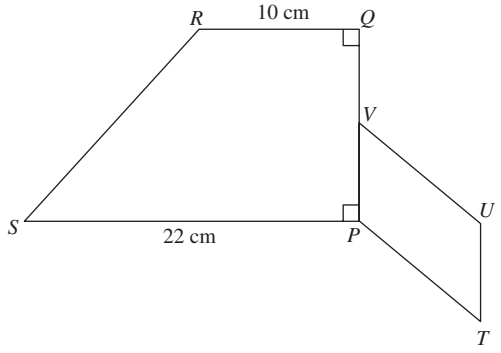
$= 18$ cm^2

D: Luas/*Area* $= 2 \times 4$

$= 8$ cm^2

Jawapan/*Answer*: **B**

5



$6 \times PV = 36$

$PV = 6$ cm

$PQ = 12$ cm

Luas trapezium/*Area of trapezium*

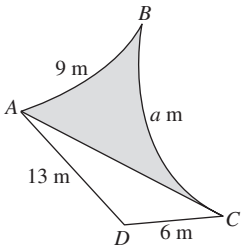
$= \frac{1}{2} \times (22 + 10) \times 12$

$= \frac{1}{2} \times 32 \times 12$

$= 192$ cm^2

Jawapan/*Answer*: **C**

6



$AC + 13 + 6 = 36$

$AC = 17$ m

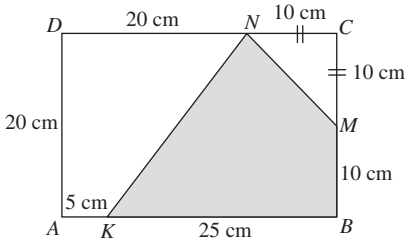
$17 + a + 9 = 45$

$a + 26 = 45$

$a = 19$

Perimeter bagi seluruh tanah
Perimeter of the whole plot of land
$= 19 + 9 + 13 + 6$
$= 47$ m

7



Luas bagi rantau berlorek
Area of the shaded region

$= 30 \times 20 - \frac{1}{2} \times 10 \times 10 - \frac{1}{2} \times (20 + 5) \times 20$

$= 600 - 50 - 250$
$= 300$ cm^2

8 $QS = 20$ m

$\frac{1}{2} \times 20 \times PR - 10 \times 5 = 550$

$10PR - 50 = 550$

$10PR = 600$

$PR = 60$ m