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The file: Worksheet about algebra, polygon and volume

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Area of the compound shapes	1
number PATTERN AND SEQUENCE	2
Averages & Frequency Diagrams	3
maths cube worksheet	4
Worksheet the volumes and surface areas of cuboids	5
Worksheets geometry the triangle	6
The areas of compound shapes	7

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EXERCISE 3

Q1. Determine whether the following is sequence or not

Set of number	Sequence	Not sequence	Explain
e.g 1: 9, 27, 81, 243	/		Pattern : Multiply by 3
a) 8, 10, 12, 13, 19			
b) 5, 9, 13, 17			
c) 55, 52, 49, 46, ...			
d) 19, 16, 12, 17, 26			

Q2. Complete the following sequence based on the pattern given

a) Pattern : multiply the previous number by 5

12, _____, _____, _____, _____, ...

b) Pattern : add 7 to the previous number

28, _____, _____, _____, _____, ...

c) Pattern : Divide the previous number by 8

4096, _____, _____, _____, _____, ...

Answer/Jawapan:

i)

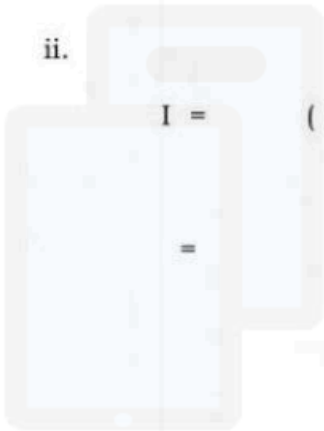
$$\text{Volume of cuboid} = \quad \times \quad \times \quad =$$

$$\text{Volume of cube} = \quad^3$$

=

$$I = \quad^3$$

ii.



$$I = \quad (\quad)^3$$

=

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-KERTAS SOALAN TAMAT-

- (c) Diagram shows a polygon which has an axis of symmetry.
Rajah menunjukkan sebuah polygon yang mempunyai satu paksi simetri.

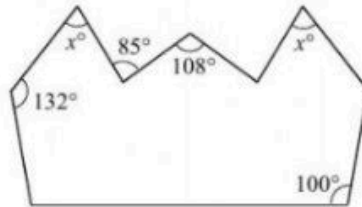


Diagram
Rajah

Find the value of x .
Cari nilai x .

Answer/*Jawapan*:

Sum of interior angle = () \times =

$$x =$$

$$x =$$

- (d) Diagram shows a cuboid.
Rajah menunjukkan sebuah kuboid.

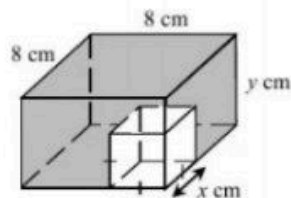


Diagram
Rajah

Given the volume of the shaded part is $I \text{ cm}^3$.
Diberi isi padu bahagian berlorek ialah $I \text{ cm}^3$.

- (i) Express I in terms of x and y .
Ungkapkan I dalam sebutan x dan y .
 (ii) Find the value of I when $x = 3$ and $y = 5$.
Cari nilai I apabila $x = 3$ dan $y = 5$.

[3 marks]
 [3 markah]

- 8 (a) Diagram shows a circle.
Rajah menunjukkan sebuah bulatan.

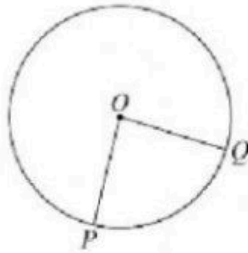


Diagram
Rajah

Match the parts of the circle with the correct names.
Padankan bahagian-bahagian bulatan dengan nama yang betul.

[3 marks]
[3 markah]

Answer/Jawapan:

- | | | | | |
|-------|---------------------------------------|---|---|--|
| (i) | Line <i>OP</i>
Garis <i>OP</i> | • | • | Minor arc <i>Lengkuk</i>
<i>minor</i> |
| (ii) | Point <i>O</i>
Titik <i>O</i> | • | • | Radius
<i>Jejari</i> |
| (iii) | Curve <i>PQ</i>
<i>Lengkung PQ</i> | • | • | Centre
<i>Pusat</i> |

- (b) Match the following.
Padankan yang berikut.

[3 marks]
[3 markah]

Answer/Jawapan:

- | | | | |
|-------|--------------------|--|--------------------|
| (i) | $(x + 2y)^2$ | | $x^2 - 4xy + 4y^2$ |
| (ii) | $(x - 2y)^2$ | | $x^2 - 4y^2$ |
| (iii) | $(x + 2y)(x - 2y)$ | | $x^2 + 4xy + 4y^2$ |