

## REVISION 14

### Section C

3. a) Syasya bought a cubical shaped accessories box. She found out that the total surface area of the box is  $24x^2 \text{ cm}^2$ .

Find the volume, in  $\text{cm}^3$ , of the box.

*Syasya membeli kotak perhiasan berbentuk kubus. Dia mendapati bahawa jumlah luas permukaan kotak itu ialah  $24x^2 \text{ cm}^2$ .*

*Cari isi padu, dalam  $\text{cm}^3$ , kotak tersebut.*

Answer/ Jawapan:

[3marks/ markah]

Area of one of cubical surface = \_\_\_\_\_ =

Area of one cubical side =  $\sqrt{\text{_____}} =$

Volume of cubical shape =  $\text{_____} \times \text{_____} \times \text{_____} =$

3.b) Diagram 13 shows two cylinders P and Q

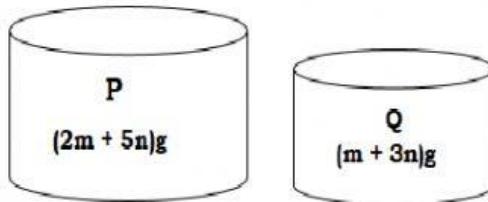


Diagram 13

Calculate the total mass of the 3 cylinder P and 5 cylinder Q, in g.

[2 marks]

Answer:

= ( \_\_\_\_\_ ) + ( \_\_\_\_\_ )

= ( \_\_\_\_\_ ) g

4.a) In Diagram 15, shows two parallel lines, OP and QR. Straight line PR is parallel to the y-axis and O is the origin

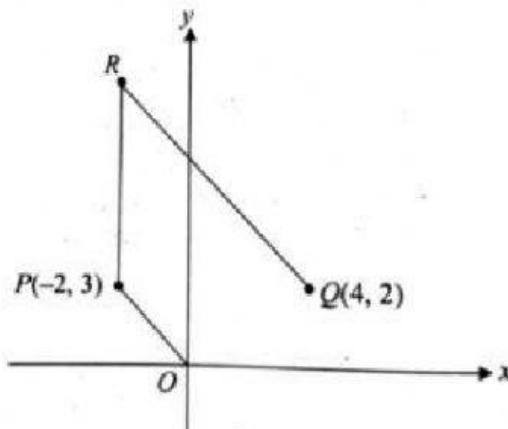


Diagram 15

Find

- i) Given, the midpoint of PR is (-2, 6). Find the coordinate of point R
- ii) The equation of the straight line QR

[4 marks]

Answer:

i)  
value at x-axis is  $x =$

ii) 
$$= \sqrt{(\quad - \quad)^2 + (\quad - \quad)^2}$$

value at y-axis

$$= \quad =$$

$$y =$$

point R = ( , )

4.b) Diagram 17 shows a square ABCD with three similar circles. The three similar circles are cut out from the square ABCD.

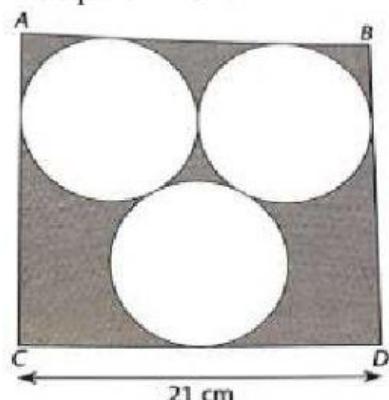


Diagram 17

Find the area, in  $\text{cm}^2$ , of the remaining region. [Use  $\pi = \frac{22}{7}$ ]  
Answer : [3 marks]

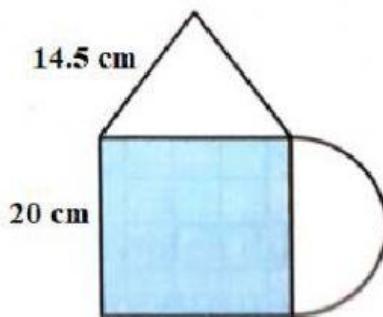
$$\text{Area of square} = \quad \times \quad =$$

$$\text{Area of circle} = \quad \times \left[ \quad \times \quad \right] =$$

$$\text{Area of the shaded region} = \quad =$$

5.a) Diagram 18 shows a scale drawing of recreation area which consists of a square, an isosceles triangle and a semicircle. The shaded region developed into a playground for the children. Find the area of recreation area which does not include the playground.

[Use  $\pi = \frac{22}{7}$ ]



**Diagram 18**

[4 marks]

Answer:

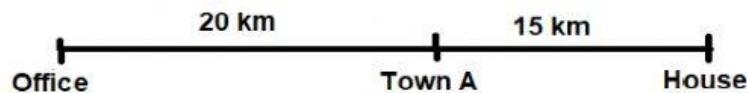
$$\text{Height of triangle} = \sqrt{\quad} =$$

$$\text{Area of triangle} = \quad \times \quad =$$

$$\text{Area of semicircle} = \quad \times \quad \times$$

$$\text{Area of the recreation} = \quad =$$

5.b) Jonathan drives from his office 1540 and reaches Town A at 1600. Then he drives at a speed of 90 km/h to return home.



Calculate:

- i) the time he reaches home
- ii) the average speed of the journey.

[3 marks]

Answer:

i) time reach home =

(in 24 hour time)

ii) average speed = \_\_\_\_\_ = km/h

6. a) Mr. Kamal bought 10 boxes of oranges for RM24 per box. There are 56 oranges in each box. He found out that for every 40 oranges, there is one bad orange.

- i) What is probability of getting a bad orange?
- ii) How many oranges are expected to be bad?

[3 marks]

Answers:

i) probability getting bad orange

= \_\_\_\_\_

ii) expected bad orange

= \_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_ =

6.b) Factorise:

$$12t^2 + 16t$$

[1 marks]

Answer:

$$= ( )$$