## REVISION 14 Section C

3.a) Find the value

$$15^{\frac{1}{2}} \times 5^{-\frac{1}{2}} \times (3^{\frac{1}{2}})^3$$

[4 marks]

Answer:

( x ) x x

Х

x =

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

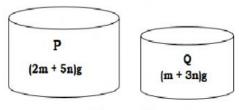


Diagram 13

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

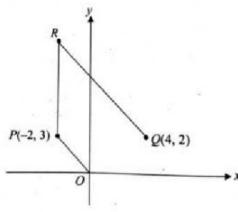


Diagram 15

Find

- i) The equation of the straight line, PR
- ii) The equation of the straight line QR

[4 marks]

Answer:

i)

ii)

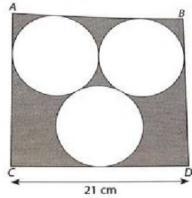
gradient QR = \_\_\_\_\_ = \_\_\_\_

value of c =

straight line equation

=\_\_\_\_

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 cm<sup>2</sup>, of the remaining region. [Use  $\pi = \frac{22}{7}$ ] Answer: (write answer in 4 s.f) [3 marks]

Area of the shaded region =

5.a) Diagram 18 shows a scale drawing of recreation area which consists of a square, an isosceles triangle and a semicircle. The drawing area has the scale drawing of 1:200. The shaded region developed into a playground for the children. Find the actual area of recreation area which does not include the playground.

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

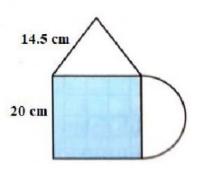


Diagram 18

[4 marks]

Answer:

Actual length is

Area of semicircle = \_\_\_\_\_ x \_\_\_\_ x

Area of the recreation =

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
- the average speed of the journey.

[3 marks]

Answer:

- i) time reach home =(in 24 hour time)
- ii) average speed = = km/h
- 6.a) Alisha facing a credit card problem. She has balance of RM10000 and just lost her job. The credit card company charges 18% of annual percentage rate (APR), **compounded** daily. Assume that the credit card company allows Alisha to suspend the payment until she get job but the interest still charged. If Alisha needs 1 year to get new job, what is the amount of her credit card debt when she started her job?

[3 marks]

Answers:

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:	
<ol> <li>probability getting bad orange</li> </ol>	
=	
ii) expected bad orange	
= x x =	
6.c) Factorise:	
$12t^2 + 16t$	mortes]
Answer:	marks]
= ( )	

6. b) Mr. Kamal bought 10 boxes of oranges for RM24 per box. There are 56 oranges in each

