

D 14%

1.5 There are ... atoms of hydrogen in 36g of H₂O.

- A 2.4×10^{24}
- B 6×10^{23}
- C 4.8×10^{24}
- D 6×10^{24}

[10]

QUESTION 2

An aeroplane flew in the following manner: 200km west, 150km south and then 180km east.

- 2.1 ~~Calculate the total distance travelled by the aeroplane.~~ (3)
- 2.2 ~~Calculate the displacement of the aeroplane.~~ (3)
- 2.3 ~~Calculate the average speed of the aeroplane.~~ (3)
- 2.4 If the plane took 15min to complete this journey, determine the average speed it flew by. (3)

[11]

QUESTION 3

A car drips oil. The driver pulls out of his driveway and leaves a set of oil drops on the road as he travels. The oil drips are drop every half a second. The distance of the drops can be recorded as follows:

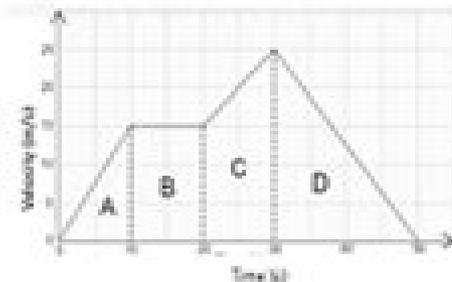
Drop point	Distance from starting point
A	
B	
C	
D	
E	
F	

- 3.1 Use the graph to calculate the acceleration at the following intervals: (5)
- 3.2 ~~Calculate the average speed of the car between points A and C.~~ (3)
- 3.3 Calculate the magnitude of the velocity at point E. (3)
- 3.4 ~~Calculate the average speed of the car between points A and F.~~ (4)

[10]

QUESTION 4

The velocity vs time graph below illustrates a part of a man's journey, dropping her kids off at school.



NO EQUATIONS OF MOTION SHOULD BE USED IN ANSWERING THE FOLLOWING QUESTIONS.

- 4.1 ~~Calculate the acceleration of the vehicle between 0 and 2s.~~ (3)
- 4.2 ~~Calculate the acceleration of the vehicle between 2 and 4s.~~ (1)
- 4.3 Use the graph to calculate the acceleration at the following intervals:
 - 4.3.1 ~~between 0 and 2s.~~ (2)
 - 4.3.2 ~~between 2 and 4s.~~ (2)
- 4.3 Use the graph to calculate the total displacement of the vehicle. (10)

[10]

QUESTION 5

A vehicle starts from rest and accelerates in a southerly direction at $3m/s^2$.

- 5.1 ~~Calculate the distance travelled by the vehicle after 4s.~~ (2)
- 5.2 ~~Calculate the velocity of the vehicle after 4s.~~ (3)
- 5.3 ~~Calculate the displacement of the vehicle after 4s.~~ (3)
- 5.4 ~~Calculate the average speed of the vehicle.~~ (3)

[11]

Physical Science 2013 September Exam

Kristi L. Koenig, Carl H. Schultz



Physical Science 2013 September Exam:

Physical Science 2013 September Exam Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has been evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Physical Science 2013 September Exam**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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