



GRADE 11 PHYSICAL SCIENCES NABUEN TEST

QUESTION 1

Answer questions one to seven in the spaces provided in the following questions. Choose the correct answer and write ONLY the LETTER (A-D) next to the QUESTION NUMBER in the space provided on your test paper (Example 1.1.1).

- 1.1 The graph below shows the relationship between the net force and the acceleration for two masses A and B.



Which one of the following statements is true?

- Force is inversely proportional to acceleration.
 - Force is directly proportional to acceleration.
 - Force is proportional to the square of acceleration.
 - Force is proportional to the square root of acceleration.
- 1.2 In each of the following cases, would the resultant force acting on the object be equal to 0N?
- Three forces acting on an object in the same direction.
 - Two forces acting on an object in opposite directions.
 - Two forces acting on an object in the same direction and a third force acting on the object in the opposite direction.
 - Two forces acting on an object in opposite directions.
- 1.3 Which of the statements below are true about the displacement?
- It is a vector quantity.
 - It is a scalar quantity.
 - It is a vector quantity and it is measured in metres.
 - It is a scalar quantity and it is measured in metres.
- 1.4 The vector of an object...
- is a vector quantity.
 - is a scalar quantity.
 - is a vector quantity and it is measured in metres.
 - is a scalar quantity and it is measured in metres.
- 1.5 An object has a weight W_1 in water. When it is placed in a liquid of density ρ_2 and the volume of the liquid is V , the weight of the object is W_2 .

Which of the following is true?

- $W_1 = W_2$
 - $W_1 > W_2$
 - $W_1 < W_2$
 - $W_1 = 0$
- 1.6 A stone is pulled through water with a force of 100N that does not move. It is pulled through the water.
- It is pulled through the water.
 - It is pulled through the water.
 - It is pulled through the water.
 - It is pulled through the water.

100

QUESTION 2

The grade 11 learners have had to find a way to determine the resultant of two vectors. One way is the component method. They want to use the vector to find the resultant of the two vectors in a triangle by the tip-to-tail method. The learners are given:

- A vector of 10N at 30° to the horizontal.
- The vector of 10N at 30° to the horizontal.
- The vector of 10N at 30° to the horizontal.
- The vector of 10N at 30° to the horizontal.



Calculate the resultant of the two vectors.

- 10N at 30° to the horizontal.
- 10N at 30° to the horizontal.
- 10N at 30° to the horizontal.
- 10N at 30° to the horizontal.
- 10N at 30° to the horizontal.

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