



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?

- 1.2 Which one of the following statements is true?
 (A) $m_A < m_B$
 (B) $m_A > m_B$
 (C) $m_A = m_B$
 (D) The mass of mass A is twice the mass of mass B.
- 1.3 In which of the following cases would the resultant force acting on an object be equal to 0 N?
 (A) Three forces acting on an object at right angles.
 (B) A 10 N force acting to the right and a 10 N force acting to the left.
 (C) A 10 N force acting to the right and a 10 N force acting upwards.
 (D) A 10 N force acting to the right and a 10 N force acting downwards.
- 1.4 Which of the statements below best describes 'weight'?
 (A) The force exerted by an object on the Earth's surface.
 (B) The weight of an object is the force exerted by the Earth on the object.
 (C) The weight of an object is the force exerted by the object on the Earth.
 (D) The weight of an object is the force exerted by the object on the Earth.
- 1.5 The vector of an object...
 (A) is a vector quantity.
 (B) is a scalar quantity.
 (C) is a vector quantity and it is a scalar quantity.
 (D) is a scalar quantity and it is a vector quantity.
- 1.6 An object has a weight W in newtons. This object is suspended by a string from the ceiling of a room. The weight of the object is W in newtons. The weight of the object is W in newtons.

vector of the object

- 1.7 Which of the following is a vector?
 (A) Time
 (B) Mass
 (C) Velocity
 (D) Acceleration
- 1.8 A force of 10 N is applied to an object. The force is 10 N. The force is 10 N. The force is 10 N.
 (A) 10 N
 (B) 10 N
 (C) 10 N
 (D) 10 N

10

QUESTION 2

The grade 11 learners have had to find a way to determine the resultant of two vectors. They used the component method. They used the law of cosines to find the resultant of the two vectors as a check on the result that they had obtained. The learners' results were:

- 2.1 The resultant of two vectors is 10 N.
 (A) 10 N
- 2.2 The resultant of two vectors is 10 N. The resultant of two vectors is 10 N.
 (A) 10 N



Use the following information to answer questions 2.1 to 2.5.

- 2.1 The resultant of two vectors is 10 N.
 (A) 10 N
- 2.2 The resultant of two vectors is 10 N.
 (A) 10 N
- 2.3 The resultant of two vectors is 10 N.
 (A) 10 N
- 2.4 The resultant of two vectors is 10 N.
 (A) 10 N
- 2.5 The resultant of two vectors is 10 N.
 (A) 10 N

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