PRINCE EDWARD ISLAND PHYSICS 12 · UNIT A

Application of Vectors — Practice Test

Prince Edward Island Physics 12 • 10 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A unit vector has magnitude**

- A 0
- B 10
- C the vector magnitude
- D 1

Understand It with Pulse | Flag a mistake

2 **Resolving a vector means finding its**

A magnitude only

B direction only

C components

D resultant

Understand It with Pulse | Flag a mistake

3 **Equilibrant force is equal in magnitude and opposite in direction to the**

A normal force

B resultant

C weight

D friction

Understand It with Pulse | Flag a mistake

4 **A boat travels 24 metres east then 7 metres north. Its displacement magnitude in metres is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **East 50 metres and west 20 metres combine to a net east displacement in metres of**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A vector of magnitude 40 at 90 degrees has horizontal component**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A displacement of 15 metres east and 20 metres north has magnitude in metres equal to**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A displacement of 40 metres east and 9 metres north has magnitude in metres equal to**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **Two forces of 20 newtons east and 21 newtons north act on an object. The resultant force in newtons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **North 60 metres and south 20 metres combine to a net north displacement in metres of**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	D	**5.**	30	**9.**	29
2.	C	**6.**	0	**10.**	40
3.	B	**7.**	25		
4.	25	**8.**	41		

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