

Pathway to Health Science

Vectors – Practice tasks

- Two vectors of the same magnitude are added; one pointing east, one west. The magnitude of the resultant vector is:
 - 0
 - 1
 - 2
 - 3
- Which of the following is not a vector quantity?
 - velocity
 - Force
 - time
 - acceleration
- A boat moves 10 km due west, 5 km due north, and then 10 km due east. The displacement of the boat from its initial position is:
 - 5 km, North
 - 10 km, East
 - 5 km, South
 - 0 km
- You walk 31 m south and 31 m west. Your displacement is approximately:
 - 22 m South west
 - 44 m South west
 - 44 M North west
 - 62 m South west
- Two football players hit a blocking sled. One hits it with a force of 350 N, East, and the other hits it with a force of 270 N, South. The resulting force is:
 - 442 N, in approximately a south-easterly direction
 - 620 N, South-East
 - 80 N, South-East
 - 442 N, South-East
- A vector has both magnitude and _____.
 - mass
 - time
 - direction
 - none of the above
- Graphical representation of vectors involves _____.
 - drawing arrows
 - units of measure
 - direction but not magnitude
 - none of the above

Answers:

- 1. A**
- 2. C**
- 3. A**
- 4. C**
- 5. A**
- 6. C**
- 7. A and B**