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International Examinations Papers

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PHYSICS-1P TOPIC- BASIC-UNITS

		Answer ALL questions.	mrc I
1	(a) Whi	ch of these is a vector quantity?	LE LA
	□ A	density	Mob: +974 55373670 / 33787500 E-mail:chymrc.muhammad@gmail.com
	■ B	force	
	□ C	mass	ا ئىرىك
	□ D	speed	
	(b) Wh	ich of these is a scalar quantity?	
	□ A	acceleration	
0	□В	energy	
gr	□ C	momentum	
16	D	velocity	
2 P= Ja	(c) Wh	nen a book from a low shelf is placed on a higher shelf, the book	gains (1)
	□ A	gravitational potential energy	
	В	mass	
	□ C	weight	
	□ D	work	*
	(d) W	hen an object falls at terminal velocity	A section of the sect
	□ A	it accelerates at 10 m/s ²	
	□В	it has no weight	
	□ C	the resultant vertical force is downwards	
	□ D	the vertical forces on it are balanced	
		(Total for O	uestion 1 = 4 marks)

Basic-Units

2 (a) State the similarity and the difference between scalars	and vectors.
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(2)

similarity

difference

(b) Complete the table by ticking (\checkmark) the correct boxes to show whether each quantity is a scalar or a vector.

The first one has been done for you.

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Quantity	Scalar	Vector
density	✓	
energy		
force		
momentum		
speed		
velocity	Company of the compan	

(Total for Question 2 = 5 marks)



Basic-Units

- **3** Some quantities are vectors, others are scalars.
 - (a) Complete the table ticking the boxes to show which quantities are vectors and which are scalars.

One has been done for you.

(2)

Quantity	Vector	Scalar
distance		
force		
momentum	√	
speed	The state of the s	
velocity		



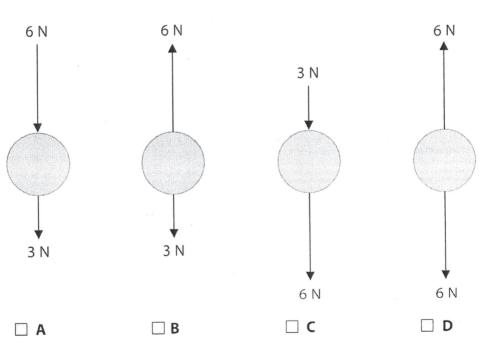


Basic-Units

Answer ALL questions.

- (a) Which of these is a scalar quantity?
 - 🗌 A weight
 - B mass
 - □ C momentum
 - □ D velocity
 - (b) Which of these is a vector quantity?
 - A acceleration
 - **B** temperature
 - □ C charge
 - D density
 - (c) The diagrams show the forces acting on four balls falling in air.

 Which diagram shows a ball decelerating as it falls?



(Total for Question 1 = 3 marks)

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