

PHYSICS

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1- (4PH0-W 2016-Paper 2P-Q1)-MOVEMENT AND POSITION, FORCES AND MOVEMENT

(a) Which of these is a vector quantity?

(1)

- A** density
- B** force
- C** mass
- D** speed

(b) Which of these is a scalar quantity?

(1)

- A** acceleration
- B** energy
- C** momentum
- D** velocity

(c) When a book from a low shelf is placed on a higher shelf, the book gains

(1)

- A** gravitational potential energy
- B** mass
- C** weight
- D** work

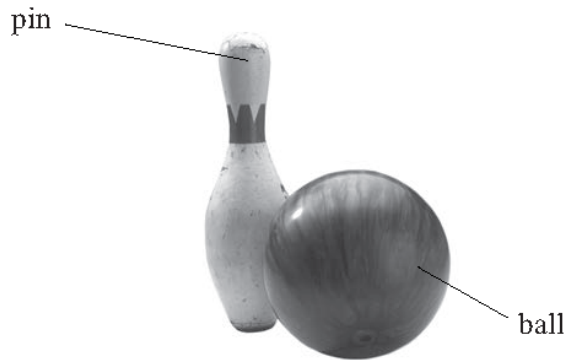
(d) When an object falls at terminal velocity

(1)

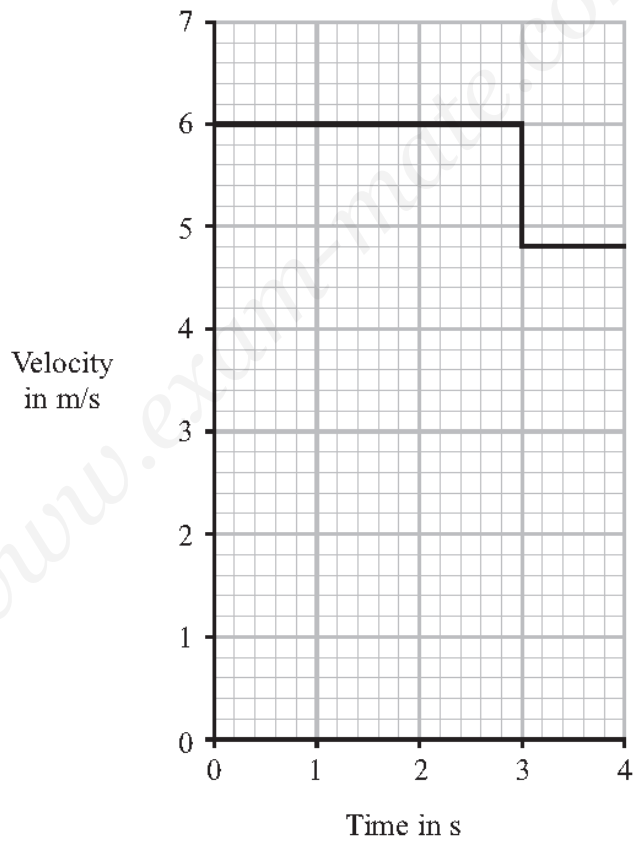
- A** it accelerates at 10 m/s^2
- B** it has no weight
- C** the resultant vertical force is downwards
- D** the vertical forces on it are balanced

2- (4PH0-W 2013-Paper 2P-Q8)-MOVEMENT AND POSITION, MOMENTUM

A bowling ball rolls for 3 s and hits a pin.



The graph shows how the velocity of the ball changes with time.



(a) How can the graph be used to find the distance that the ball rolls before it hits the pin?

(1)

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2- (4PH0-W 2013-Paper 2P-Q8)-MOVEMENT AND POSITION, MOMENTUM

(b) The mass of the ball is 6.4 kg.

(i) State the equation linking momentum, mass and velocity.

(1)

(ii) Calculate the momentum of the ball before it hits the pin.
Give the unit.

(3)

Momentum = Unit

(c) (i) What is the velocity of the ball after it hits the pin?

(1)

Velocity = m/s

(ii) After the collision, the ball and the pin have the same velocity.

Calculate the mass of the pin.

(3)

Mass =

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3- (4PH0-W 2012-Paper 2P-Q2)-MOVEMENT AND POSITION

Two students, Jenny and Cho, are investigating motion.

Jenny walks in a straight line.

Cho measures the distance Jenny has walked at 10 s intervals.

(a) State **two** measuring instruments the students should use.

(2)

1

2

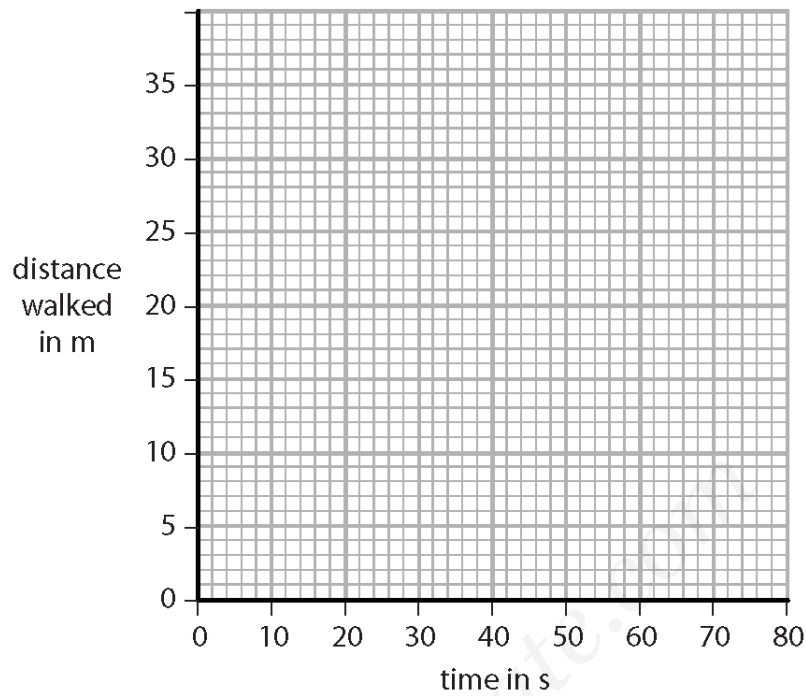
(b) The table shows their measurements.

Time in s	Distance walked in m
0	0
10	14
20	19
30	24
40	28
50	30
60	31

3- (4PH0-W 2012-Paper 2P-Q2)-MOVEMENT AND POSITION

Draw a graph of distance against time for this data.

(3)



(c) How far had Jenny walked after 35 s?

(1)

Distance walked = m

(d) (i) Describe how Jenny's speed changed during the investigation.

(1)

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(ii) What feature of the graph shows this change?

(1)

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