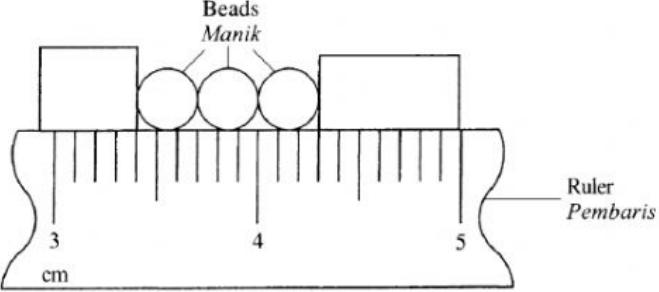


NAMA :		KELAS :											
1.	<p>What is the S.I unit for density? <i>Apakah unit S.I bagi ketumpatan?</i></p> <p><b>A</b> <math>\text{g cm}^3</math>  <b>B</b> <math>\text{g cm}^{-3}</math>  <b>C</b> <math>\text{kg m}^3</math>  <b>D</b> <math>\text{kg m}^{-3}</math></p>	2.	<p>Which value is equal to 3 500 000 W? <i>Nilai manakah yang sama dengan 3 500 000 W?</i></p> <p><b>A</b> 3.5 kW  <b>B</b> 3.5 MW  <b>C</b> 35 kW  <b>D</b> 35 MW</p>										
3	<p>Which pair of physics quantity and SI unit is correct? <i>Pasangan kuantiti fizik dan unit SI manakah yang betul?</i></p> <table border="1"> <thead> <tr> <th>Physics quantity <i>Kuantiti fizik</i></th><th>SI unit <i>Unit SI</i></th></tr> </thead> <tbody> <tr> <td>A Electric current <i>Arus elektrik</i></td><td>Ampere <i>Ampere</i></td></tr> <tr> <td>B Pressure <i>Tekanan</i></td><td>Newton <i>Newton</i></td></tr> <tr> <td>C Weight <i>Berat</i></td><td>kilogramme <i>kilogram</i></td></tr> <tr> <td>D Force <i>Daya</i></td><td>Joule <i>Joule</i></td></tr> </tbody> </table>	Physics quantity <i>Kuantiti fizik</i>	SI unit <i>Unit SI</i>	A Electric current <i>Arus elektrik</i>	Ampere <i>Ampere</i>	B Pressure <i>Tekanan</i>	Newton <i>Newton</i>	C Weight <i>Berat</i>	kilogramme <i>kilogram</i>	D Force <i>Daya</i>	Joule <i>Joule</i>	4	<p>Which of the following is a vector quantity? <i>Antara yang berikut, yang manakah kuantiti vektor?</i></p> <p><b>A</b> Energy <i>Tenaga</i>  <b>B</b> Force <i>Daya</i>  <b>C</b> Mass <i>Jisim</i>  <b>D</b> Speed <i>Laju</i></p>
Physics quantity <i>Kuantiti fizik</i>	SI unit <i>Unit SI</i>												
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D Force <i>Daya</i>	Joule <i>Joule</i>												
5	<p>Diagram 1 shows the method of measuring a diameter of a bead. <i>Rajah 1 menunjukkan kaedah mengukur diameter sebiji manik.</i></p> 		<p>Diagram 1 <i>Rajah 1</i></p> <p>What is the diameter of a bead? <i>Apakah diameter sebiji manik?</i></p> <p><b>A</b> 0.3 cm  <b>B</b> 0.9 cm  <b>C</b> 3.4 cm  <b>D</b> 4.3 cm</p>										
6	<p>A car travels at a velocity of <math>84.6 \text{ km h}^{-1}</math>. What is its velocity in <math>\text{m s}^{-1}</math>? <i>Sebuah kereta bergerak dengan halaju <math>84.6 \text{ km j}^{-1}</math>. Berapakah halajunya dalam <math>\text{m s}^{-1}</math>?</i></p> <p><b>A</b> 11.8  <b>B</b> 23.5  <b>C</b> 84.7  <b>D</b> 304.8</p>	7	<p>The volume of a liquid in a container is <math>2.5 \text{ cm}^3</math>. What is the volume of the liquid, in <math>\text{m}^3</math>? <i>Isi padu cecair dalam satu bekas adalah <math>2.5 \text{ cm}^3</math>. Berapakah isi padu cecair itu, dalam <math>\text{m}^3</math>?</i></p> <p><b>A</b> <math>2.5 \times 10^{-2}</math>  <b>B</b> <math>2.5 \times 10^{-6}</math>  <b>C</b> <math>2.5 \times 10^2</math>  <b>D</b> <math>2.5 \times 10^6</math></p>										

- 8 Diagram 2 shows a velocity-time graph. The gradient of the graph represent the acceleration.

Rajah 2 menunjukkan satu graf halaju-masa. Kecerunan graf mewakili pecutan.

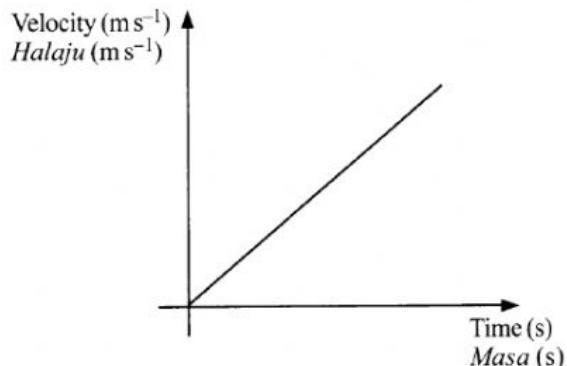


Diagram 2  
Rajah 2

Which quantity is the manipulated variable?

Kuantiti manakah adalah pembolehubah dimanipulasikan?

- A Time  
Masa
- B Velocity  
Halaju
- C Acceleration  
Pecutan

- 9 Table 1 shows the number of goals scored by players K, L, M and N in three matches.

Jadual 1 menunjukkan bilangan gol yang dijaringkan oleh pemain K, L, M dan N dalam tiga perlawanan.

Player Pemain	Match 1 Perlawanan 1	Match 2 Perlawanan 2	Match 3 Perlawanan 3
K	1	3	2
L	3	0	2
M	2	1	2
N	0	1	2

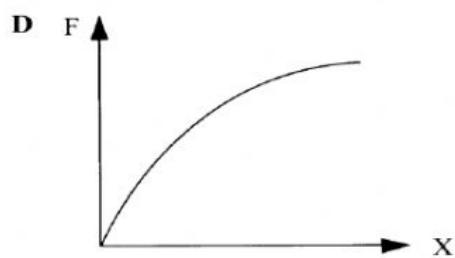
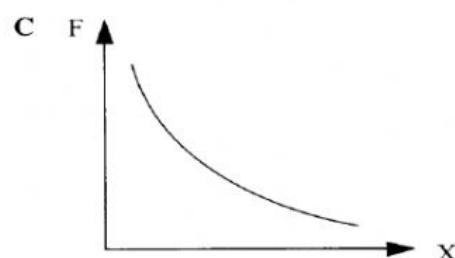
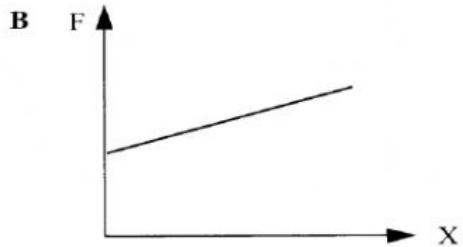
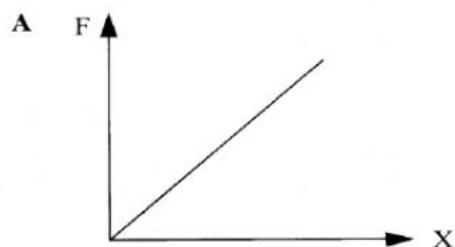
Table 1  
Jadual 1

Which player shows consistency?

Pemain manakah yang menunjukkan kepersisan?

- A K
- B L
- C M
- D N

- 10 Which graph shows that  $F$  is inversely proportional to  $X$ ?  
*Graf manakah yang menunjukkan  $F$  berkadar songsang dengan  $X$ ?*



- |  |   |
|--|---|
| <p>11 Which quantity is base quantity?<br/> <i>Kuantiti manakah adalah kuantiti asas?</i></p> <p><b>A</b> Potential difference<br/> <i>Beza keupayaan</i></p> <p><b>B</b> Electric current<br/> <i>Arus elektrik</i></p> <p><b>C</b> Electric energy<br/> <i>Tenaga elektrik</i></p> <p><b>D</b> Electric power<br/> <i>Kuasa elektrik</i></p> | <p>12 Which quantity is a vector quantity?<br/> <i>Kuantiti manakah adalah kuantiti vektor?</i></p> <p><b>A</b> Mass<br/> <i>Jisim</i></p> <p><b>B</b> Energy<br/> <i>Tenaga</i></p> <p><b>C</b> Pressure<br/> <i>Tekanan</i></p> <p><b>D</b> Momentum<br/> <i>Momentum</i></p> |
|--|---|

- 13 Diagram 1 shows two identical eggs are dropped from the same height,  $h$ , onto a floor and a sponge respectively.

*Rajah 1 menunjukkan dua biji telur serupa dijatuhkan dari ketinggian yang sama,  $h$ , ke atas lantai dan span masing-masing.*

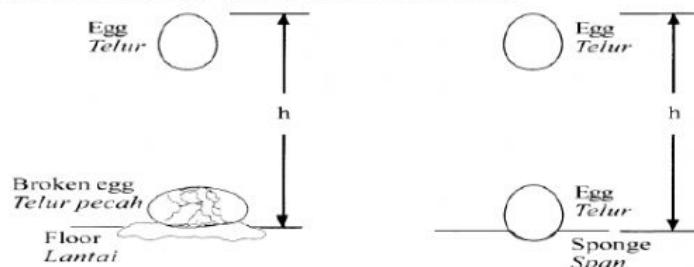


Diagram 1  
*Rajah 1*

- Which inference is correct?  
*Inferensi manakah yang betul?*
- A** Impulsive force depends on velocity of egg  
*Daya impuls bergantung kepada halaju telur*
- B** Impulsive force depends on time of impact  
*Daya impuls bergantung kepada masa hentaman*
- C** Impulsive force depends on gravitational force  
*Daya impuls bergantung kepada daya graviti*
- D** Impulsive force depends on height of egg  
*Daya impuls bergantung kepada ketinggian telur*

14

Which of the following SI unit is correct for each quantity?

*Unit SI manakah yang betul bagi setiap kuantiti?*

	Quantity <i>Kuantiti</i>	SI unit <i>Unit SI</i>
A	Mass <i>Jisim</i>	Gram (g) <i>Gram (g)</i>
B	Time <i>Masa</i>	Minute (min) <i>Minit (min)</i>
C	Length <i>Panjang</i>	Centimetre (cm) <i>Sentimeter (cm)</i>
D	Temperature <i>Suhu</i>	Kelvin (K) <i>Kelvin (K)</i>

15

Which of the marks (✓) combination explains the correct scalar quantity or vector quantity?

*Gabungan bertanda (✓) manakah yang menerangkan dengan betul kuantiti skalar atau kuantiti vektor?*

	Quantity <i>Kuantiti</i>	Magnitude <i>Magnitud</i>	Direction <i>Arah</i>	Base <i>Asas</i>	Derived <i>Terbitan</i>
A	Scalar <i>Skalar</i>	✓		✓	✓
B	Scalar <i>Skalar</i>	✓	✓	✓	
C	Vector <i>Vektor</i>		✓	✓	✓
D	Vector <i>Vektor</i>	✓		✓	✓

16

Systematic error is caused by the

*Ralat bersistem disebabkan oleh*

- A position of the eye  
*kedudukan mata*
- B instrument used  
*peralatan yang digunakan*
- C mistake in the measuring  
*kesilapan dalam mengukur*
- D change in the surrounding temperature  
*perubahan suhu sekeliling*