



PRACTICE MAKES PERFECT OBJECTIVE Qs

1.1 PHYSICAL QUANTITIES

1. SPM 2003/1

Which physical quantity has the correct S.I units?
Kuantiti fizikal manakah mempunyai unit SI yang betul?

	Physical quantity/ <i>Kuantiti fizikal</i>	S.I unit <i>Unit SI</i>
A	Temperature <i>Suhu</i>	Celsius <i>Celcius</i>
B	Time <i>Masa</i>	Minute <i>Minit</i>
C	Mass <i>Jisim</i>	Newton <i>Newton</i>
D	Length <i>Panjang</i>	Meter <i>Meter</i>

2. SPM 2005 / 3

The relationship between stretching force, F with the extension, x of a spring is given by the equation:

Hubungan antara daya regangan, F dengan pemanjangan, x bagi spring diberikan oleh persamaan :

$$F = kx$$

where k is the spring constant.
dimana k ialah pemalar spring.

What is the unit of k?
Apakah unit bagi k?

- A Nm^{-1}
- B Nm^{-2}
- C kg Nm^{-1}
- D kg Nm^{-2}

3. SPM 2006/1

Which of the following physical quantities is **not** a base quantity?

*Manakah antara kuantiti fizikal berikut **bukan** kuantiti asas?*

- A Weight / *Berat*
- B Time / *Masa*
- C Temperature / *Suhu*
- D Electric current / *Arus elektrik*

4. SPM 2013/1

Which pair of physics quantity and SI unit is correct?

Pasangan kuantiti fizik dan unit SI manakah yang betul?

	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>

5. SPM 2014/1

Which quantity is base quantity?

Kuantiti manakah adalah kuantiti asas?

- A Potential difference / *Beza keupayaan*
- B Electric current / *Arus elektrik*
- C Electric energy / *Tenaga elektrik*
- D Electric power / *Kuasa elektrik*

6. SPM 2015/1

Which of the following SI units 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>

7. SPM 2007/2

Which of the following quantities is a vector quantity?

Manakah antara kuantiti berikut ialah kuantiti vektor

- A Energy
Tenaga
- B Power
Kuasa
- C Force
Daya
- D Pressure
Tekanan

8. SPM 2009/2

Which quantity is a vector quantity?

Kuantiti manakah ialah kuantiti vector?

- A Area / *Luas*
- B Length / *Panjang*
- C Distance / *Jarak*
- D Displacement / *Sesaran*

9. SPM 2012/3

Which of the following is a vector quantity?

Antara berikut, yang manakah kuantiti vector?

- A Energy / Tenaga
- B Force / Daya
- C Mass / Jisim
- D Speed / Laju

10. SPM 2015/2

Which quantity is a vector quantity?

Kuantiti manakah adalah kuantiti vector?

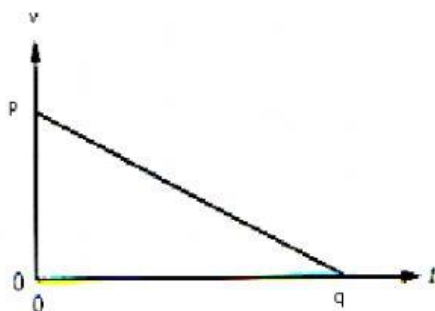
- A Mass / Jisim
- B Energy / Tenaga
- C Pressure / Tekanan
- D Momentum / Momentum

1.2 SCIENTIFIC INVESTIGATIONS

11. SPM 2003/2

The graph shows the relationship between v and t .

Graf manakah menunjukkan hubungan antara v dan t ?



The relationship between v and t is represented by the equation

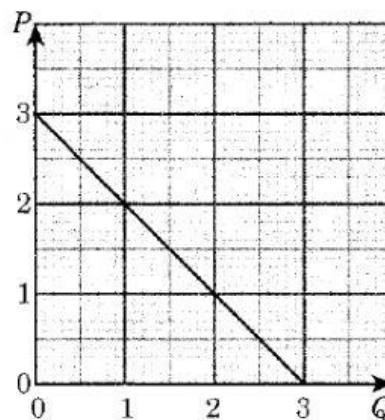
Hubungan antara v dan t diwakili oleh persamaan

- A $v = \frac{p}{q}t + p$
- B $v = \frac{p}{q}t + q$
- C $v = -\frac{p}{q}t + p$
- D $v = -\frac{p}{q}t + q$

12. SPM 2004/3

The graph shows the relationship between physical quantities P and Q .

Graf menunjukkan hubungkait antara kuantiti fizikal P dan Q .



Which statement about the graph correct?

Penyataan manakah benar?

- A If $Q=1$, then $P=2$
Jika $Q = 1$, maka $P = 2$
- B The gradient of the graph is 1
Kecerunan graf ialah 1
- C P is directly proportional to Q
 P berkadar terus dengan Q
- D The equation of the graph is $P=1+3Q$
Persamaan graf ialah $P=1+3Q$

13. SPM 2006/2

Which of the following graph obeys the equation $F=kx$, where k is constant.

Manakah antara graf berikut mematuhi persamaan $F = kx$ dimana k ialah pemalar

