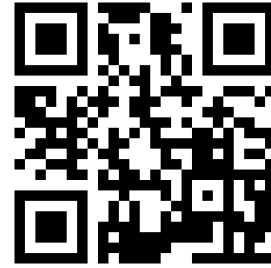


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CHAPTER 5 : MOTION
BAB 5 : GERAKAN

5.1 Analysing the motion of vehicles in land
 5.1 Menganalisis Pergerakan Kenderaan Di Darat

1 Figure shows a ticker tape that has been obtained from the movement of a trolley on a tilted platform. The trolley took 6 seconds to go from the top of the platform.
Rajah menunjukkan pita detik yang diperolehi daripada gerakan sebuah troli yang menuruni landasan condong. Troli itu mengambil masa 6 saat untuk turun daripada atas landasan ke bawah landasan itu.

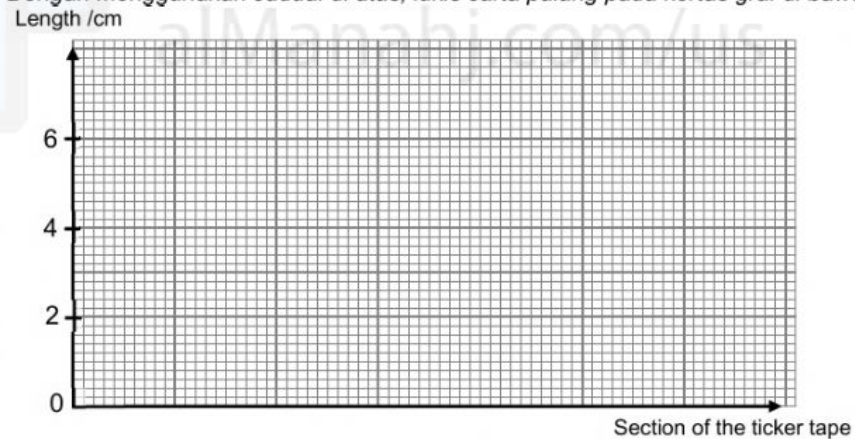
Table shows information about the ticker tape above
Jadual menunjukkan maklumat tentang keratan pita detik di atas.

Section of the ticker tape <i>Keratan pita detik</i>	1	2	3	4
Length of section / cm <i>Panjang/cm</i>	2.0	4.0	5.0

(a) Measure the length of Section 2 of the ticker tape and record it in Table above.
Ukur panjang Keratan 2 pita detik itu dan catatkan dalam Jadual di atas.

.....
Aras rendah
 [1 mark]

(b) Using the table above, draw a bar chart on the graph paper below.
Dengan menggunakan Jadual di atas, lukis carta palang pada kertas graf di bawah.



Aras Tinggi
 [2 marks]

(c) Using your bar chart in (b), state the type of movement made by the trolley.
Dengan menggunakan carta palang anda di (b), nyatakan jenis gerakan troli itu.

.....
Aras Sederhana
 [1mark]

- (d) Section 5 of the ticker tape follows section 4 and also represents a 1 second interval.
Keratan 5 pita detik adalah selepas keratan 4 dan juga mewakili jarak waktu 1 saat.

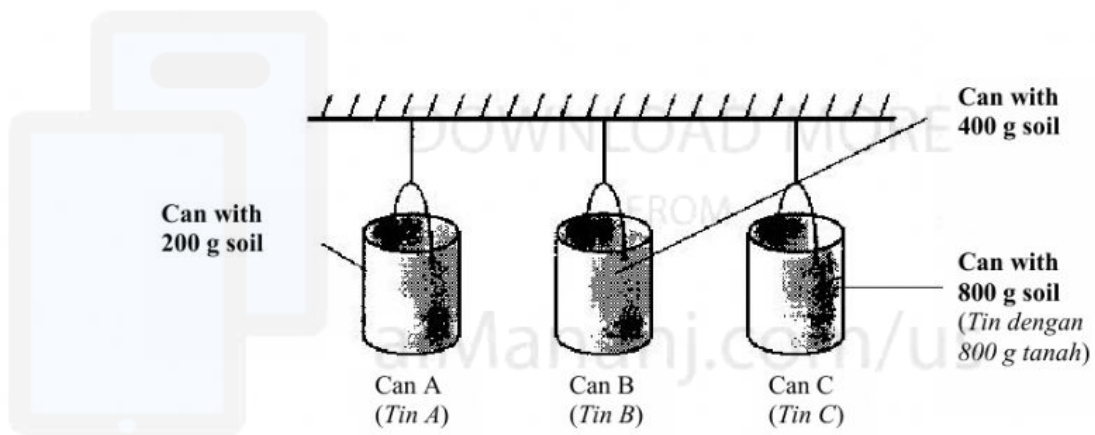
Using Figure 3, predict the length of Section 5.
Dengan menggunakan Rajah 3, ramalkan ukuran panjang Keratan 5.

Length / *Panjang* : cm

Aras Tinggi
 [1mark]

5.3 Understanding The Concept Of Inertia
 5.3 Memahami Konsep Inersia

- 2 Diagram shows the set-up of the apparatus to investigate the relationship between mass and inertia.
Rajah menunjukkan susunan radas untuk mengkaji hubungan antara jisim dan inersia)



Three cans A, B and C are pushed at the same time by the same force. The time taken by each tin to stop from its swinging is observed.
Tiga tin A, B dan C ditolak pada masa yang sama dengan daya yang sama. Masa yang diambil oleh setiap tin untuk berhenti berayun dicatat.

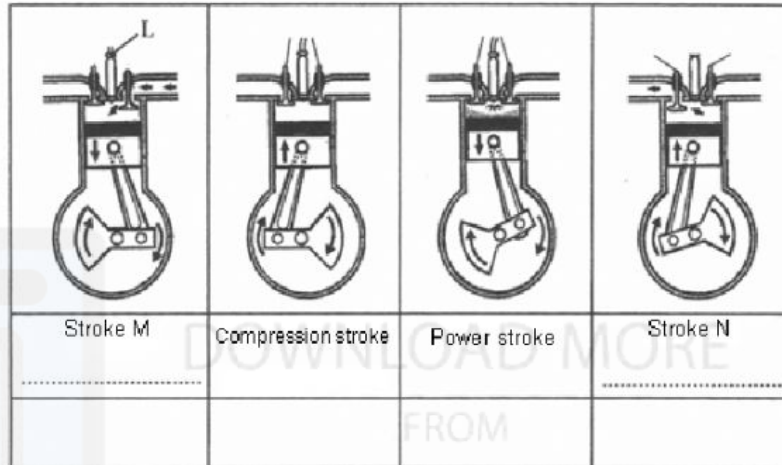
The results of the experiment are recorded in Table .
Keputusan eksperimen dicatat di dalam Jadual .

Can (Tin)	A	B	C
Time taken for can to stop (minutes) <i>Masa yang di ambil untuk tin berhenti (minit)</i>	2	4	15

SECTION B
BAHAGIAN B

5.1 Analysing The Motion Of Vehicles In Land
5.1 Menganalisis Pergerakan Kenderaan Di Darat

- 5 Diagram shows the principle of a four stroke diesel engine.
Rajah menunjukkan prinsip operasi enjin diesel empat lejang.



- (a) Name the strokes M and N in the lined spaces provided in Diagram above.
Tulis nama lejang M dan lejang N dalam ruang bergaris yang disediakan dalam rajah di atas

Aras Rendah
[2 marks]

- (b)(i) Name the structure labelled L .
Namakan struktur berlabel L .

.....
Aras Rendah
[1 mark]

- (ii) What is the function of the structure labelled L?
Apakah fungsi struktur berlabel L?

.....
Aras Sederhana
[1mark]

- (c) Mark (✓) in the boxes provided in Diagram to show where the combustion of the diesel takes place.
Tandakan (✓) dalam kotak yang disediakan pada Rajah untuk menunjukkan di mana pembakaran diesel berlaku.

Aras Sederhana
[1mark]

- (d) State **one** difference between the diesel engine in Diagram and a four stroke petrol engine.
*Nyatakan **satu** perbezaan antara enjin diesel dalam Rajah dengan enjin petrol empat lejang.*

.....
.....

Aras Tinggi
[1mark]



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