

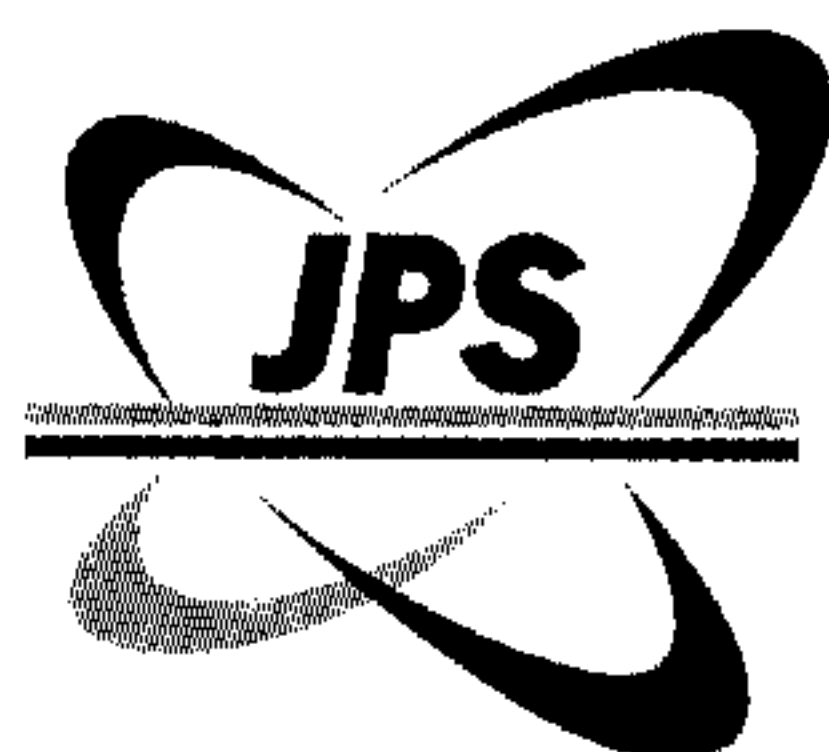
NO. KAD PENGENALAN
NO.SURAT BERANAK

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ANGKA GILIRAN

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018
Sains
JULAI
2011
1¼ jam



**JABATAN PELAJARAN NEGERI SELANGOR
MAJLIS GURU BESAR NEGERI SELANGOR
PROGRAM PENINGKATAN PRESTASI AKADEMIK 2
PEPERIKSAAN PERCUBAAN UPSR
2011**

**SCIENCE
SAINS**

One hour and fifteen minutes
Satu jam lima belas minit

DO NOT OPEN THIS QUESTION PAPER UNTIL YOU ARE TOLD
JANGAN BUKA KERTAS SOALAN INI SEHINGGA DIBERITAHU

1. You are required to answer all questions in section A and B
Calon dikehendaki menjawab semua soalan dalam bahagian A dan B
2. This paper consists of 24 printed pages.
Kertas soalan ini mengandungi 24 halaman bercetak.
3. Section A consists of 30 objective questions and you must answer in the answer sheet given.
Bahagian A mengandungi 30 soalan objektif dan jawab dalam kertas jawapan yang disediakan.
4. Section B consists of 5 questions and you need to answer in the space given.
Bahagian B mengandungi 5 soalan dan perlu dijawab dalam ruang yang disediakan dalam kertas soalan.

Markah/ Marks

SECTION A <i>Bahagian A</i>	
SECTION B <i>Bahagian B</i>	
TOTAL <i>Jumlah</i>	

Kertas soalan ini mengandungi 24 halaman bercetak

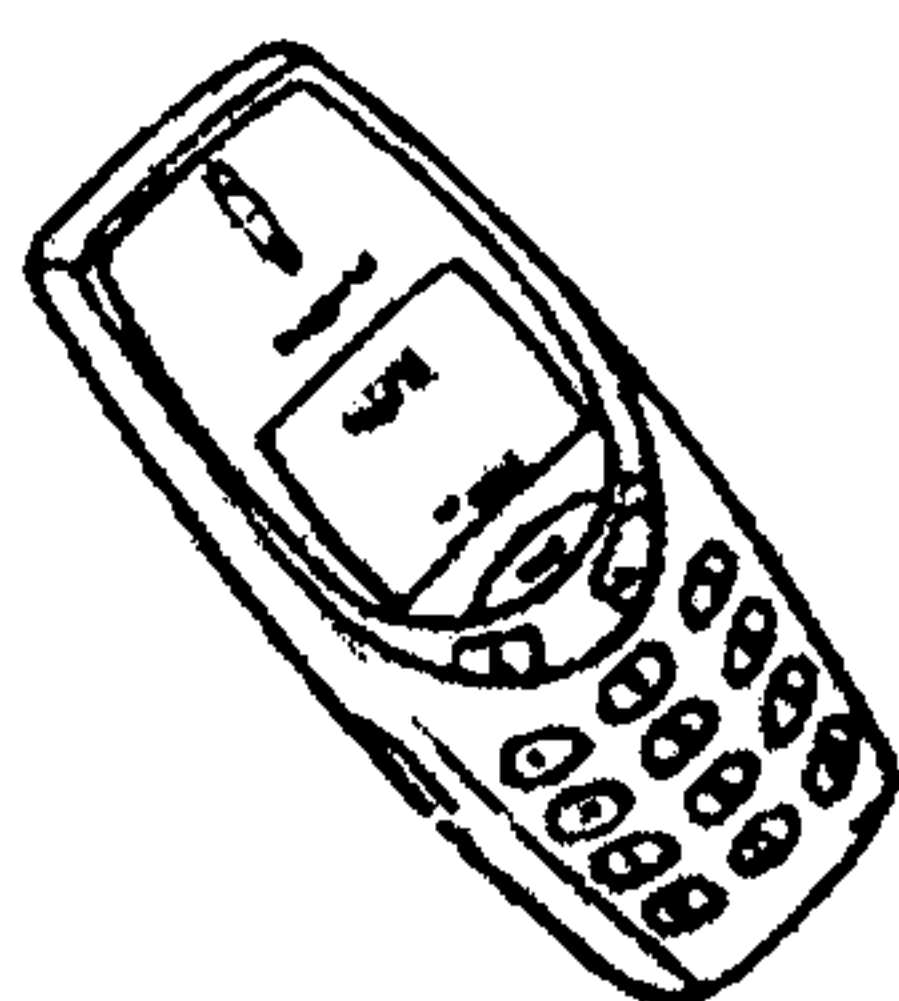
Section A
Bahagian A

(30 marks)
(30 markah)

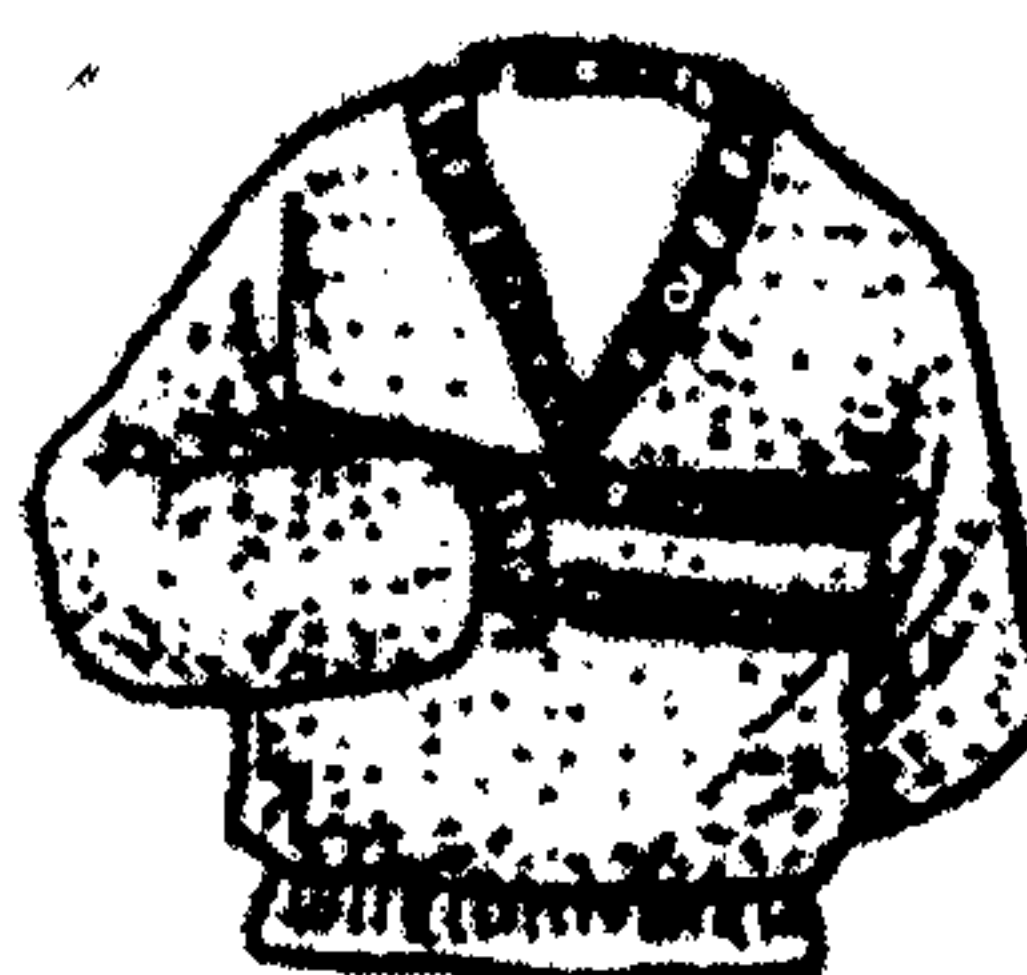
Answer all questions.
Jawab semua soalan.

- 1 Which of the following is a basic need of a human?
Antara berikut manakah keperluan asas manusia?

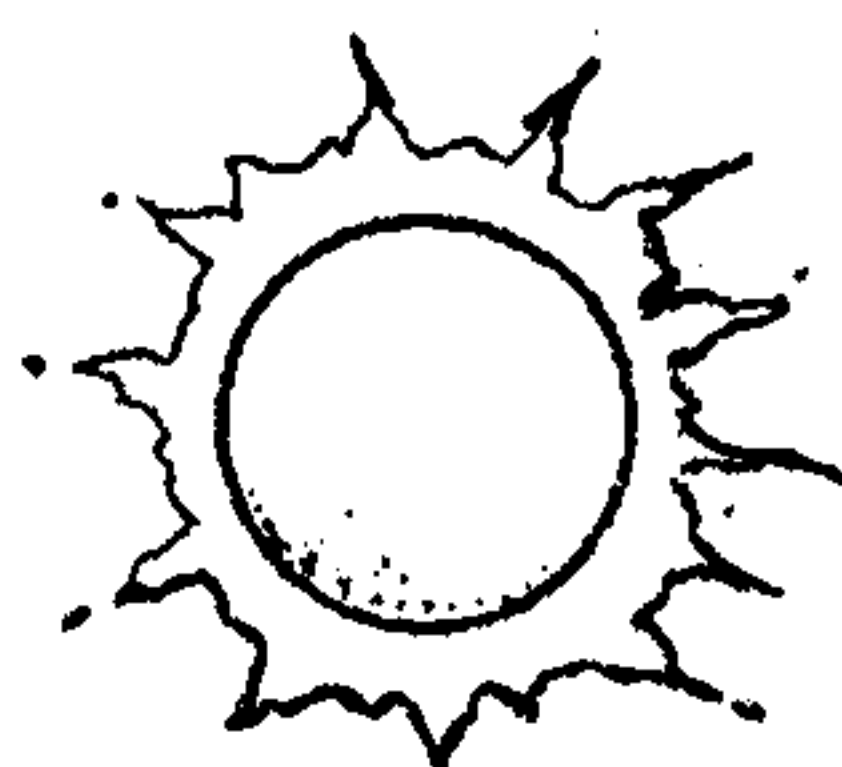
A



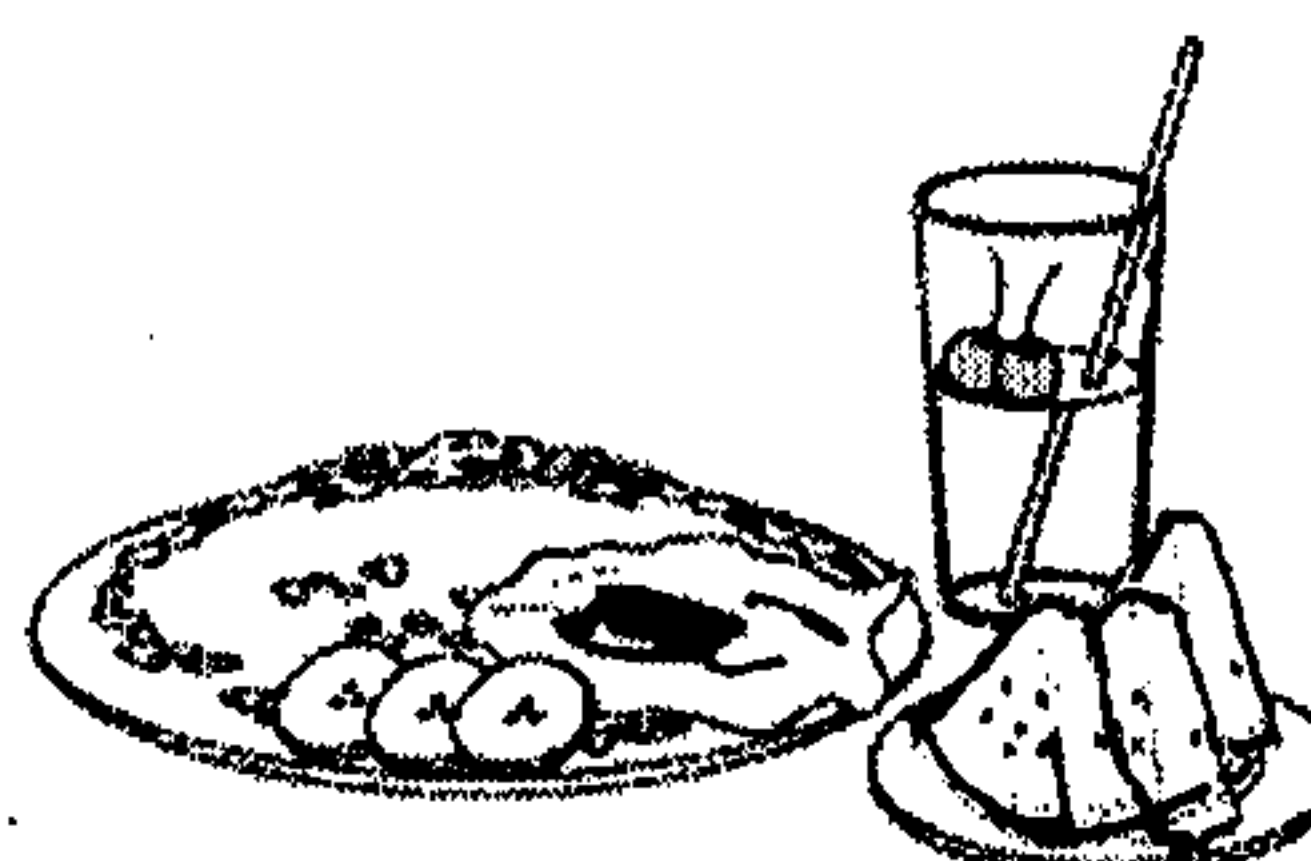
B



C



D



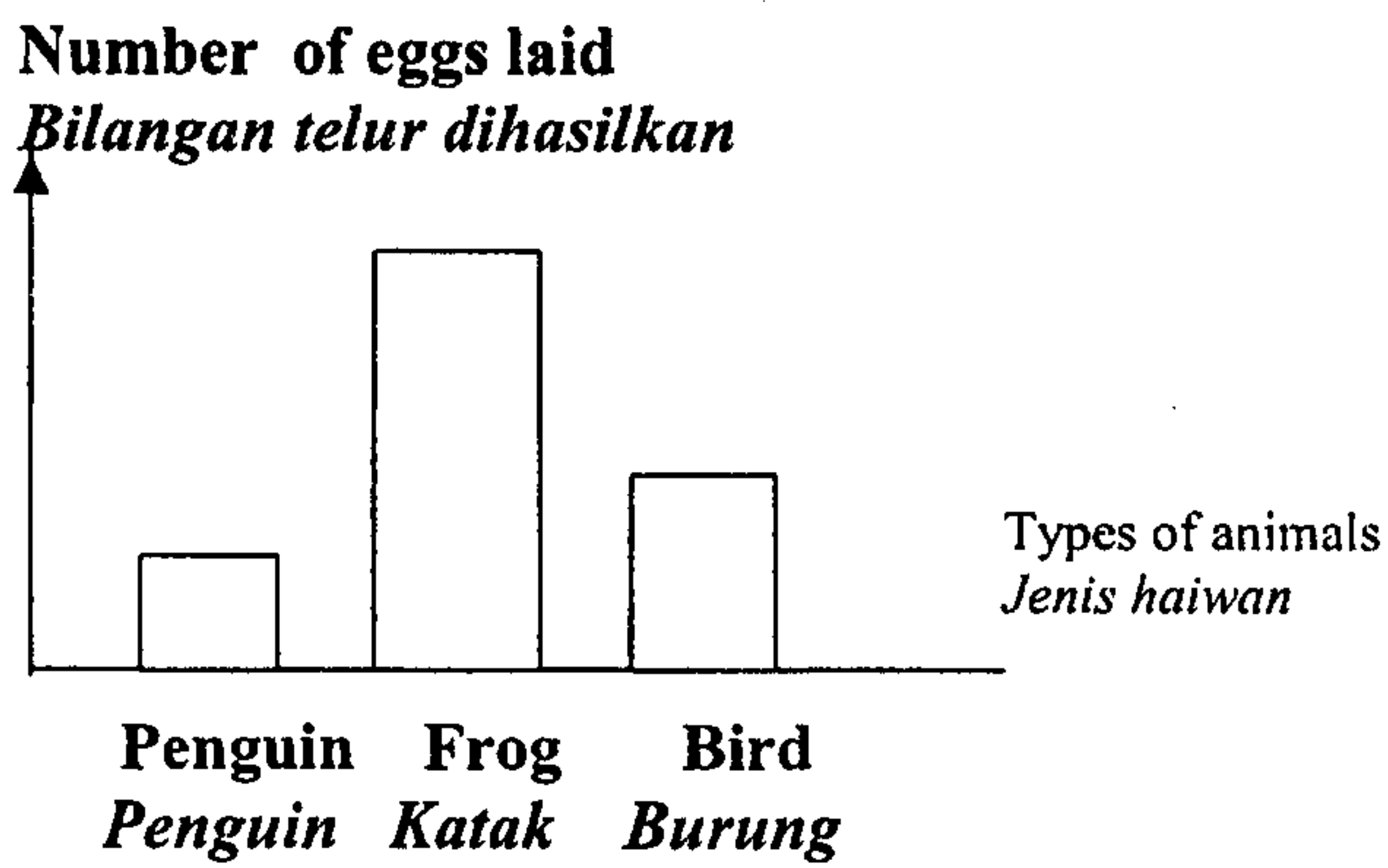
2 Table 1 shows the results of an investigation.
Jadual 1 menunjukkan keputusan bagi satu penyiasatan.

Type Of Animals <i>Jenis Haiwan</i>	Number of eggs laid <i>Bilangan telur yang dihasilkan</i>
Penguin <i>Penguin</i>	1 <i>1</i>
Frog <i>Katak</i>	100-200 <i>100-200</i>
Bird <i>Burung</i>	4-6 <i>4-6</i>

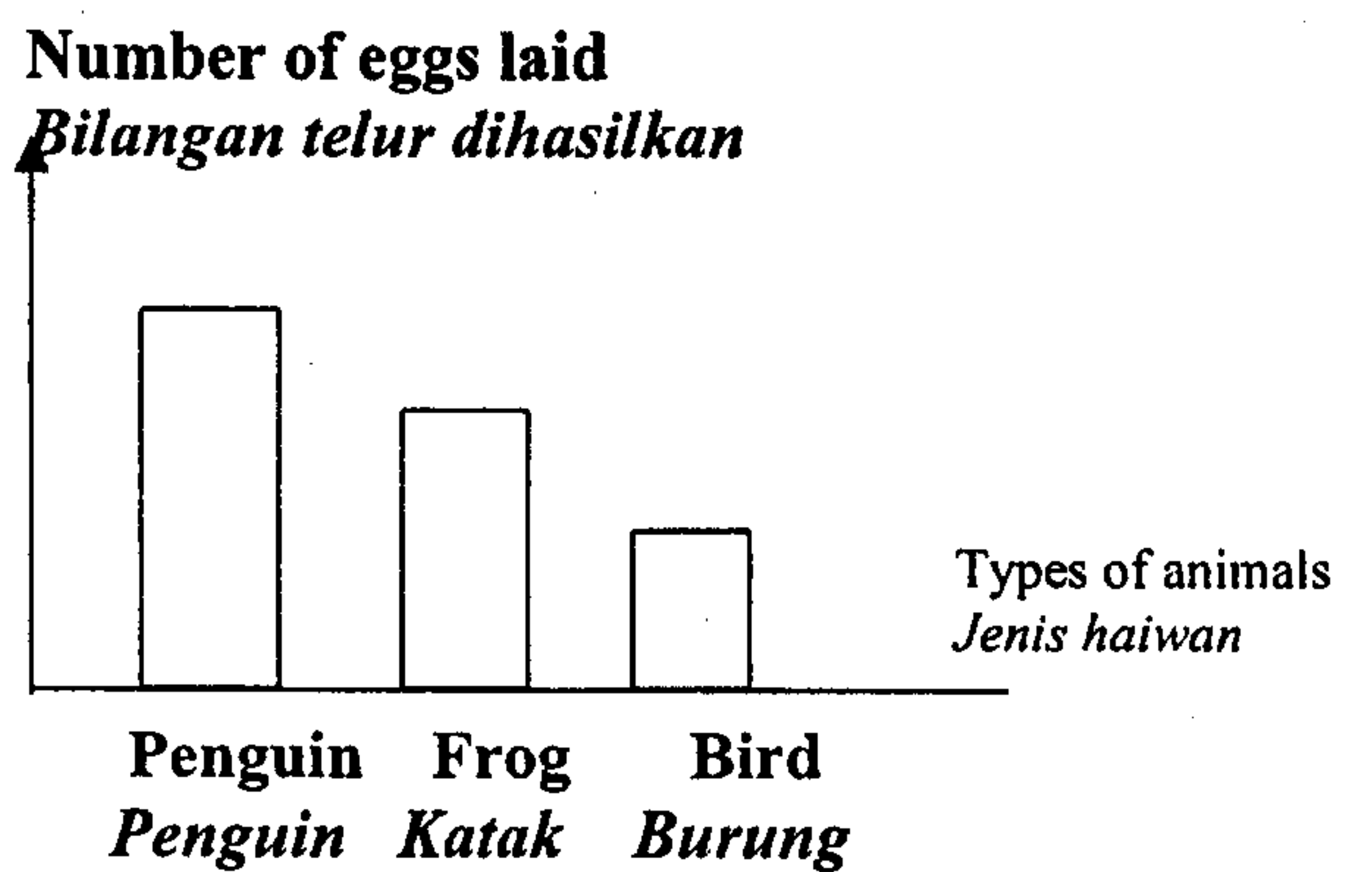
Table 1
Jadual 1

Which of the following is true about the observation above?
Antara berikut manakah pernyataan yang benar tentang pemerhatian di atas?

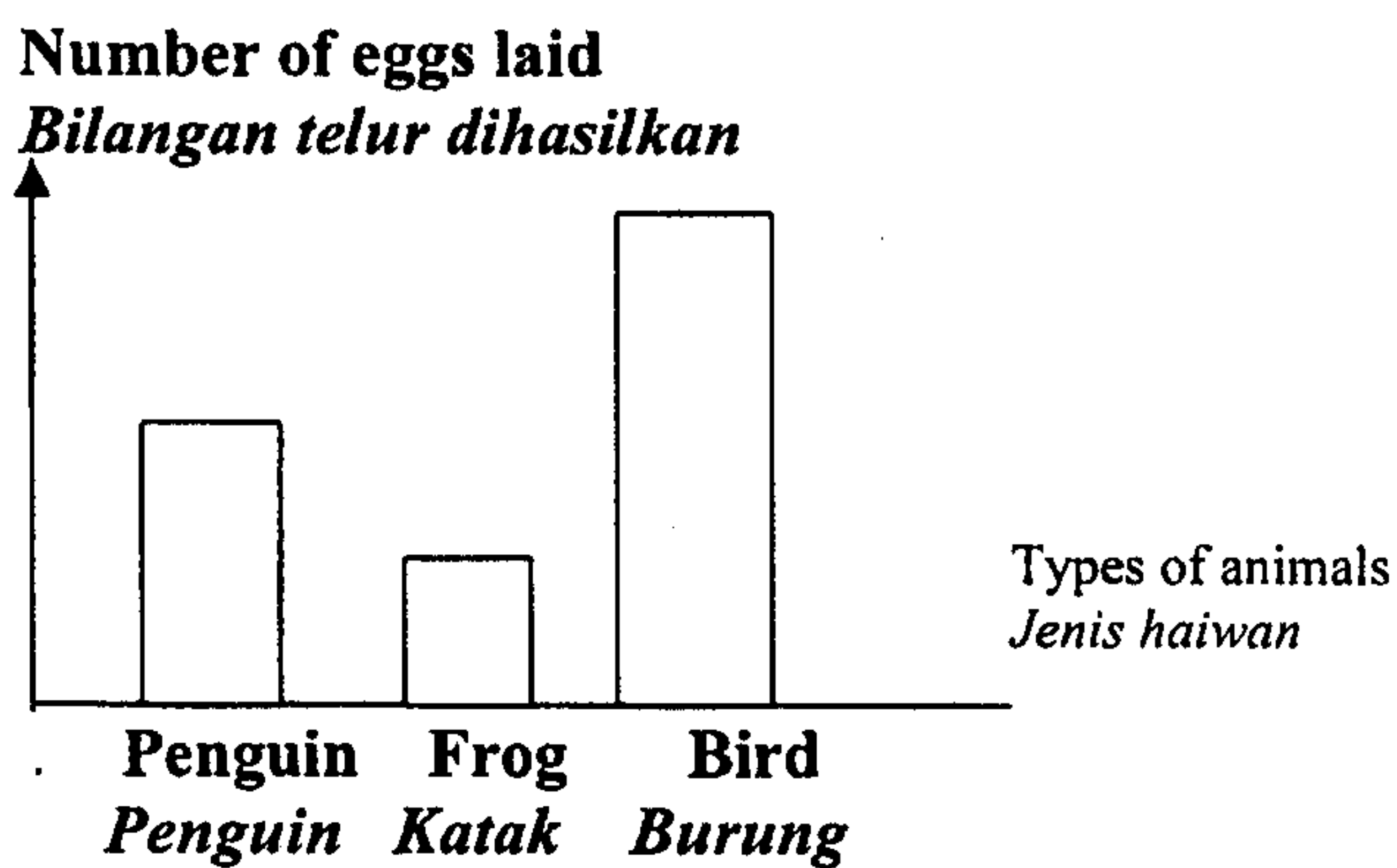
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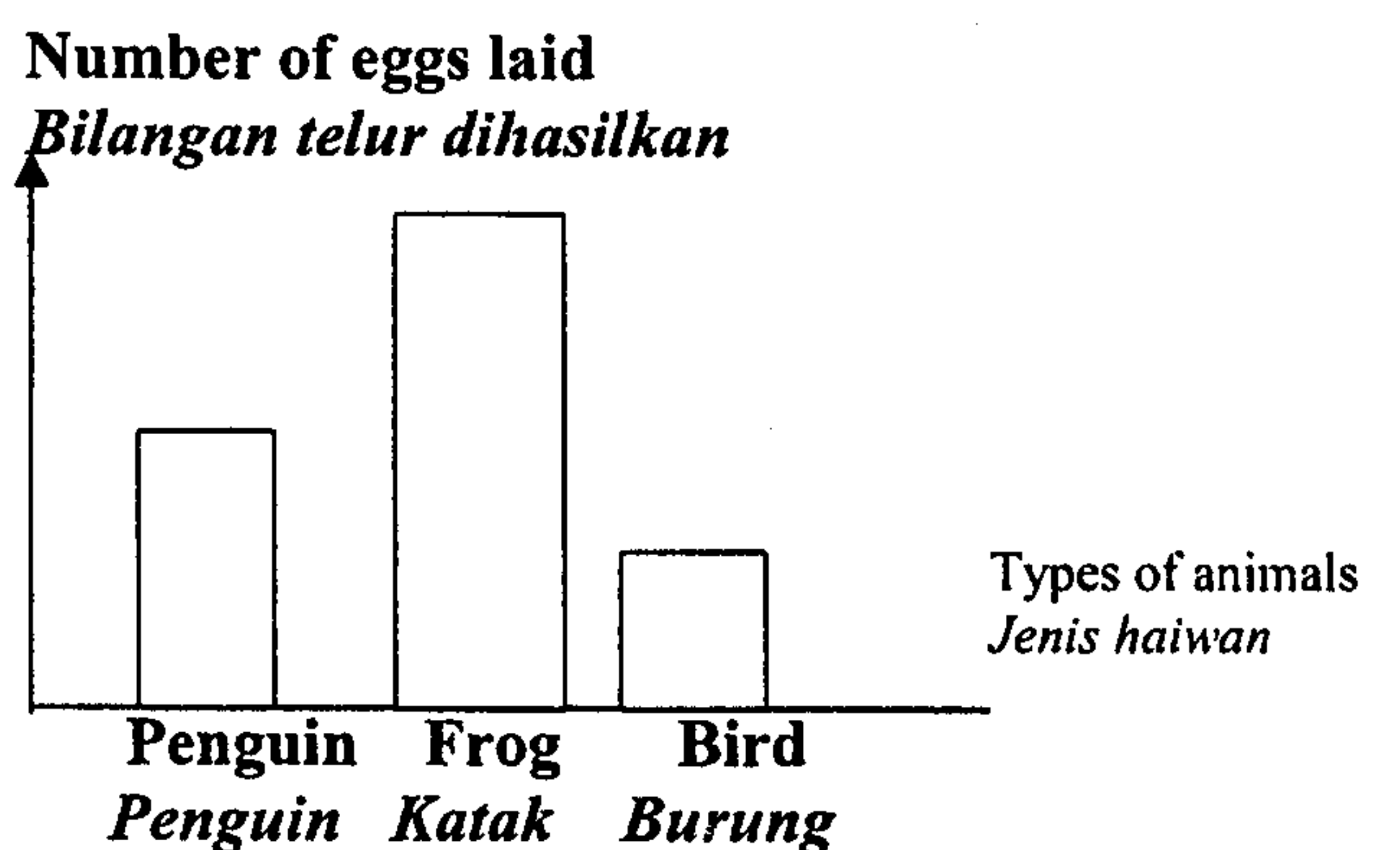
B



C



D





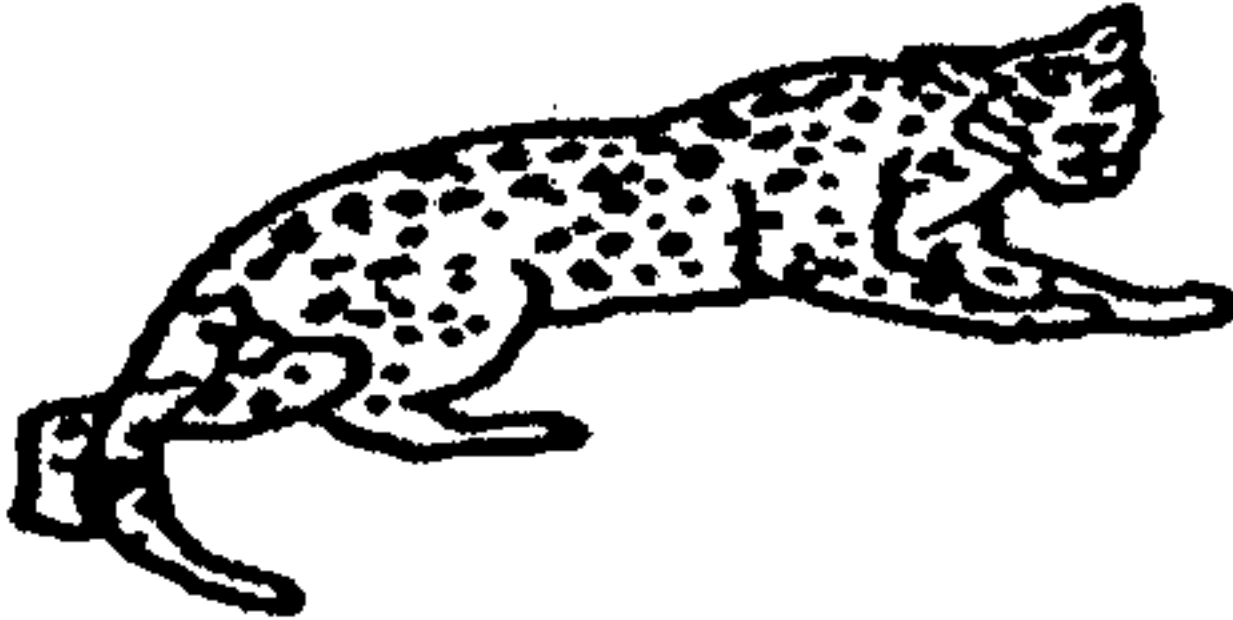

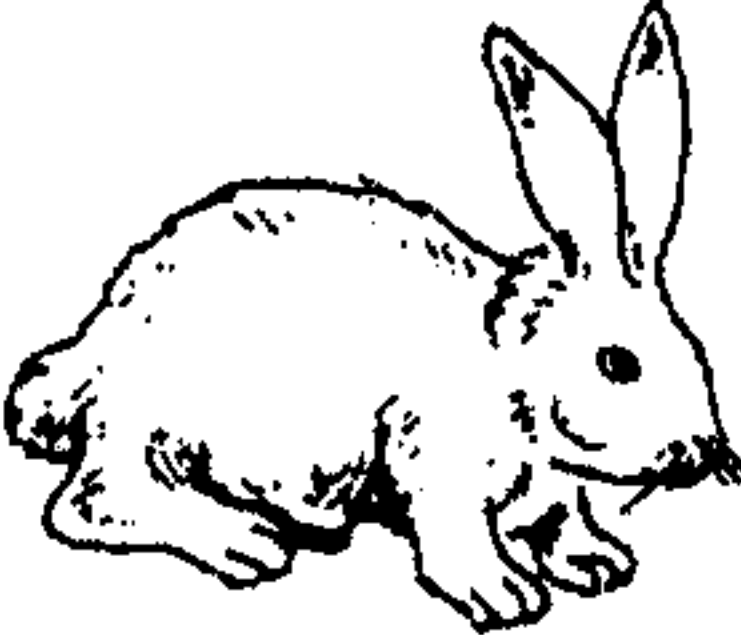
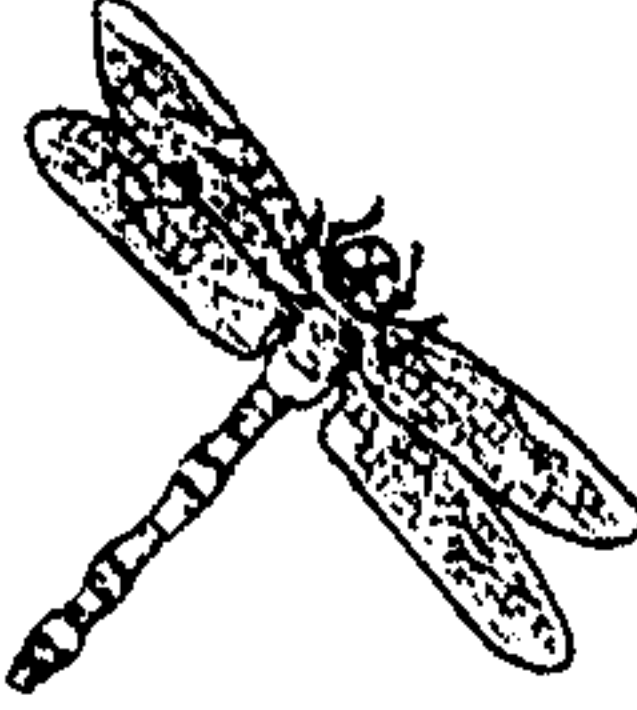
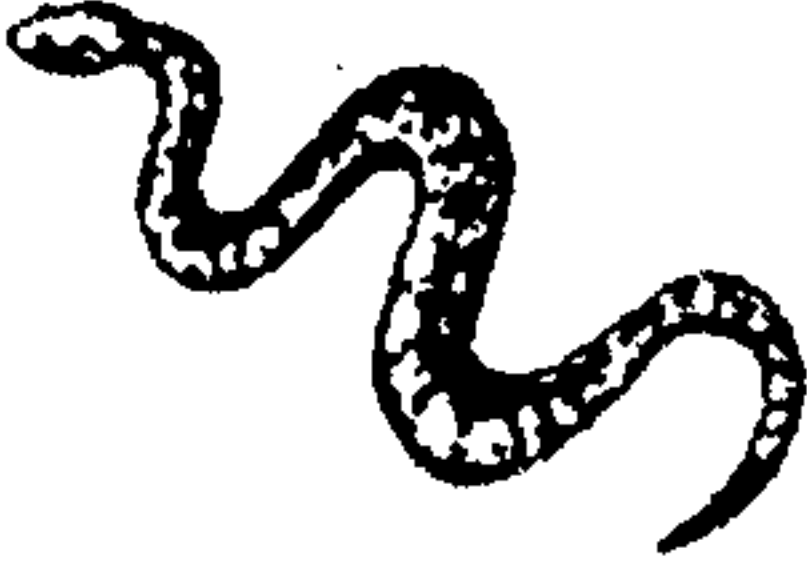

3 Which of the following animals can be classified into group P and group Q?
Antara berikut, haiwan yang manakah boleh dikelaskan dalam kumpulan P dan Kumpulan Q?



P



Q

	P	Q
A		
B		
C		
D		

- 4 Vivek did an experiment to find out about needs of water among different types of plants. He did not water the plants for 2 weeks. The results are recorded in Table 2. *Vivek menjalankan satu eksperimen untuk menyiasat keperluan air bagi tumbuhan yang berbeza. Dia tidak menyiram air untuk tempoh 2 minggu. Keputusan eksperimen telah direkod di Jadual 2.*


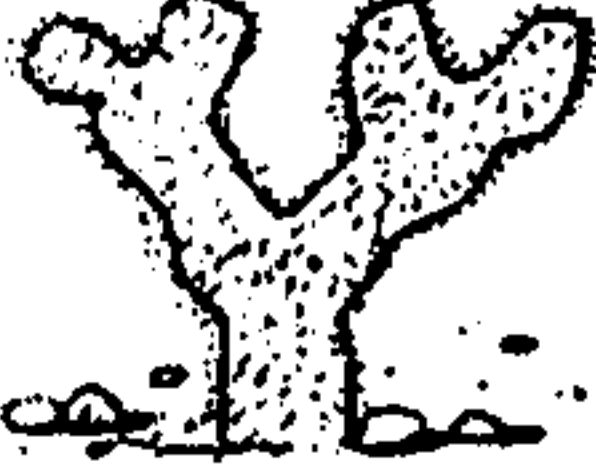
Type of plants <i>Jenis tumbuhan</i>	Condition of plant on the 3 rd day. <i>Keadaan tumbuhan pada hari ketiga</i>	Condition of the plant on the 2 nd week <i>Keadaan tumbuhan pada minggu ke-2.</i>
 Balsam plant <i>Pokok Keembung</i>	Wilted <i>layu</i>	Dead <i>Mati</i>
 Cactus Plant <i>Pokok Kaktus</i>	Remains the same <i>Tiada perubahan</i>	Remains the same <i>Tiada perubahan</i>

Table 2
Jadual 2

Which of the following statements are true?
Antara berikut, pernyataan manakah benar?

- I The balsam plant only needs water on the 3rd day
Pokok keembung hanya memerlukan air pada hari yang ketiga
- II The cactus plant can survive without water for along time.
Pokok kaktus boleh hidup tanpa air untuk jangka masa yang lama
- III The balsam plant needs water to survive.
Pokok keembung memerlukan air untuk hidup
- IV The cactus plant can survive without water.
Pokok kaktus boleh hidup tanpa air.

A I and II
I dan II

B II and III
II dan III

C I and III
I dan III

D I and IV
I dan IV

- 5 Diagram 1 shows how Alister makes a dough by mixing flour, warm water, dried yeast and sugar.

Rajah 1 menunjukkan Alister membuat satu doh dengan mengaulkan tepung, air suam, yis dan gula .



Diagram 1
Rajah 1

What will happen to the dough after 25 minutes?

Apakah yang akan berlaku pada doh tersebut selepas 25 minit ?

- A The size of the dough will increase
Saiz doh akan bertambah
- B The size of the dough will decrease
Saiz doh akan berkurang
- C The dough will change colour.
Warna doh akan berubah
- D The dough will remain the same.
Tiada apa-apa perubahan pada doh tersebut

6

W	-	caterpillar <i>ulat beluncas</i>
X	-	snake <i>ular</i>
Y	-	paddy <i>padi</i>
Z	-	chicken <i>ayam</i>

Construct one food chain based on the living things above.

Bina satu rantai makanan berdasarkan benda-benda hidup di atas.

- A $W \rightarrow Z \rightarrow X \rightarrow Y$
- B $Z \rightarrow X \rightarrow W \rightarrow Y$
- C $W \rightarrow Z \rightarrow X \rightarrow Y$
- D $Y \rightarrow W \rightarrow Z \rightarrow X$

- 7 Diagram 2 shows a young plant.
Rajah 2 menunjukkan anak pokok.



Young plant
Anak pokok

Diagram 2
Rajah 2

Which of the following plants reproduce in a similar way as the plant shown in the Diagram 2?

Antara tumbuhan berikut, manakah yang membiak seperti tumbuhan dalam Rajah 2?

- | | |
|----------------------|---------------------------------------|
| A Pineapple
Nanas | B Sugar cane
Tebu |
| C Begonia
Begonia | D Bougainvillea
Pokok bunga kertas |

- 8 Object S made up of a few cubes R.
Objek S diperbuat daripada beberapa kiub R.

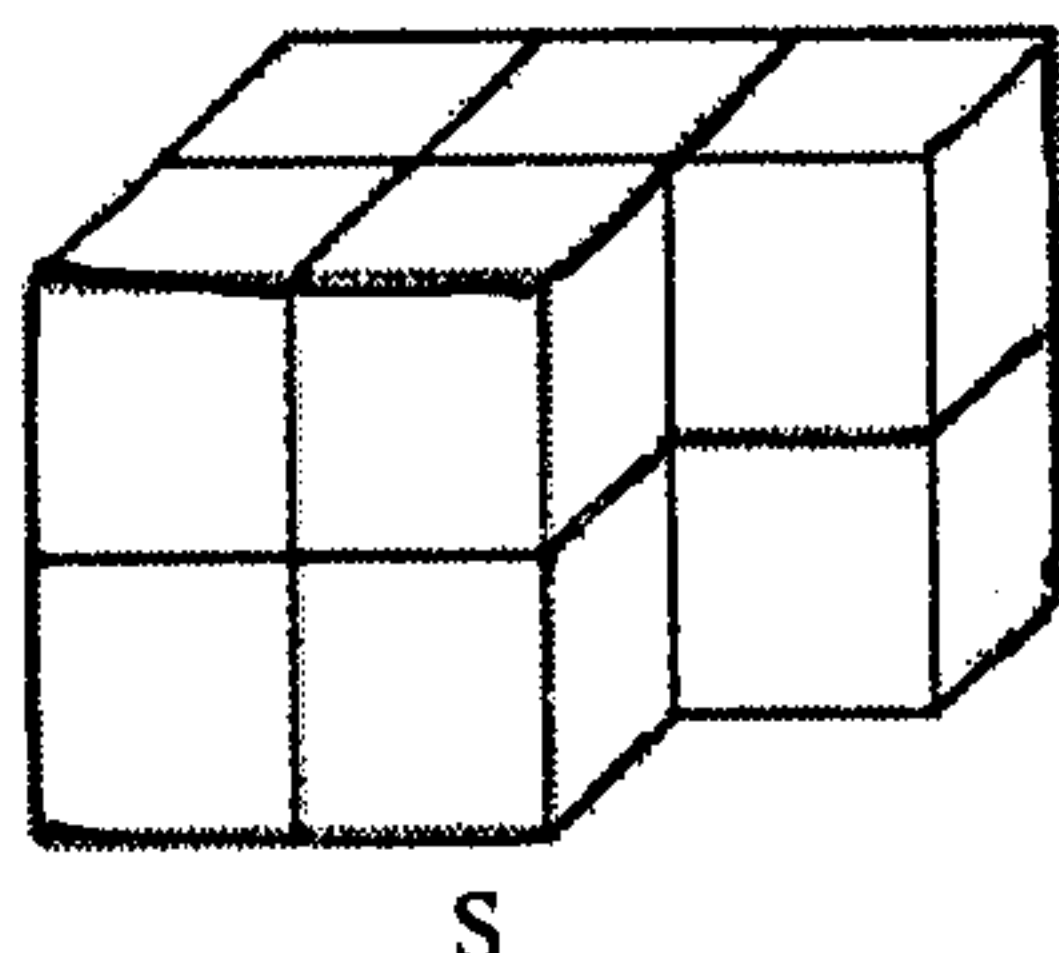
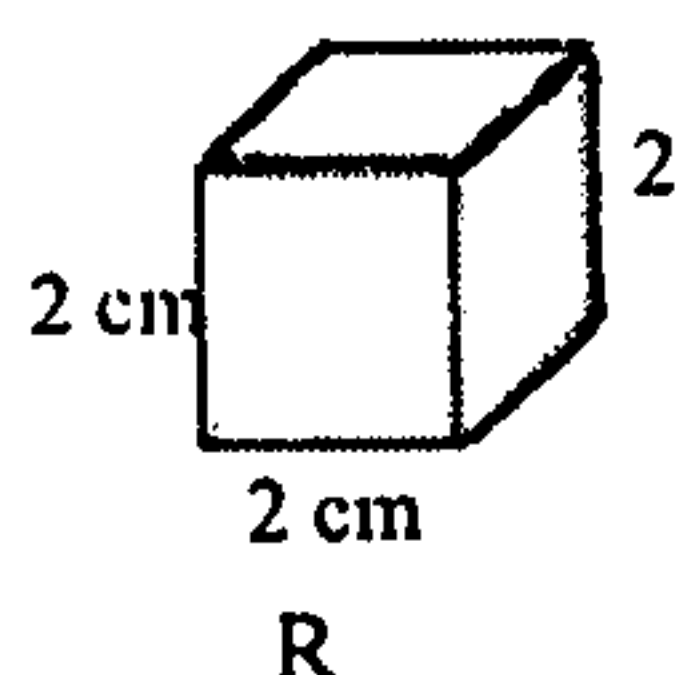


Diagram 3
Rajah 3

What is the volume of the object S?
Apakah isipadu bagi objek S?

- | | |
|---|--------------------|
| A | 20 cm ³ |
| B | 40 cm ³ |
| C | 60 cm ³ |
| D | 80 cm ³ |

- 9 Diagram 4 shows the mass of an orange.
Rajah 4 menunjukkan jisim bagi sebiji oren.

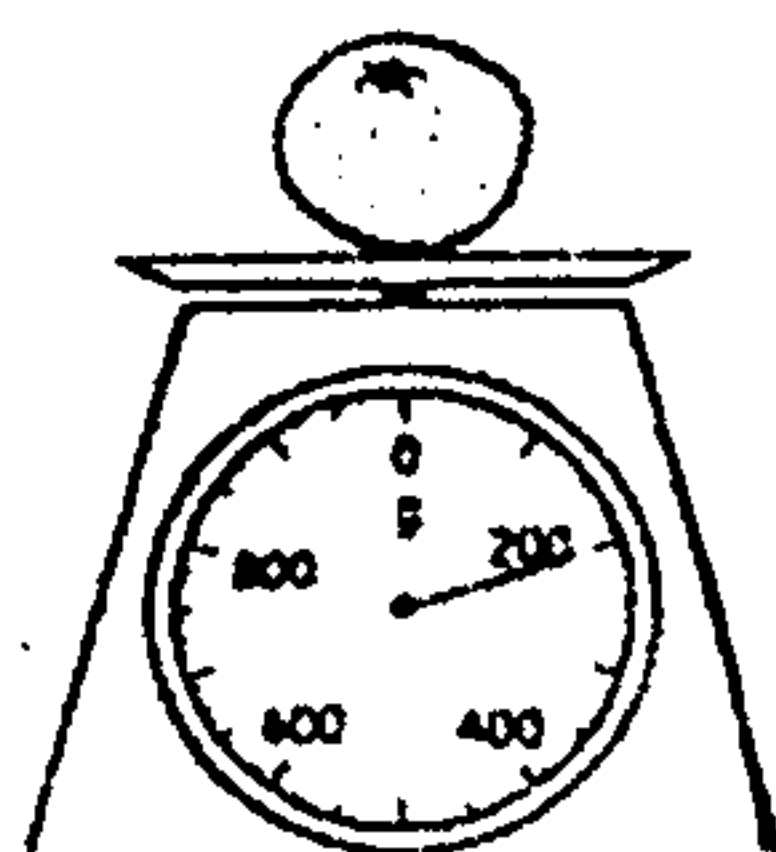


Diagram 4
Rajah 4

What is the mass of three similar oranges?
Apakah jisim bagi tiga biji buah oren tersebut?

- | | |
|--------|--------|
| A 200g | C 400g |
| B 600g | D 800g |

10 What is meant by temperature?
Apakah yang dimaksudkan dengan suhu?

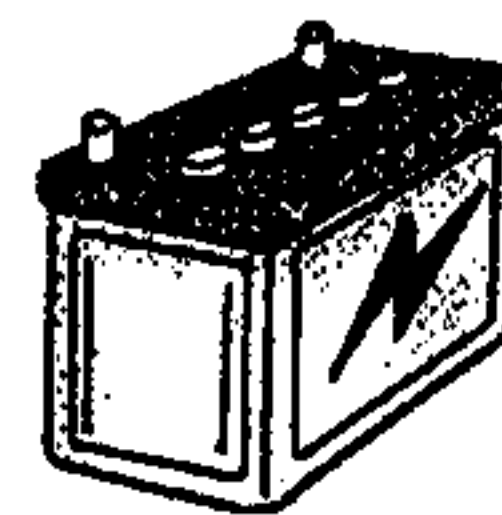
- A Measurement of the mercury inside the thermometer
Pengukuran merkuri di dalam termometer
- B Measurement of the surrounding condition
Pengukuran keadaan persekitaran
- C Reading of the thermometer
Bacaan pada termometer
- D Measurement of the degree of hotness
Pengukuran darjah kepanasan

11 Which source of electricity is used to light up a bicycle lamp?
Sumber tenaga elektrik yang manakah digunakan untuk menyalakan lampu basikal?

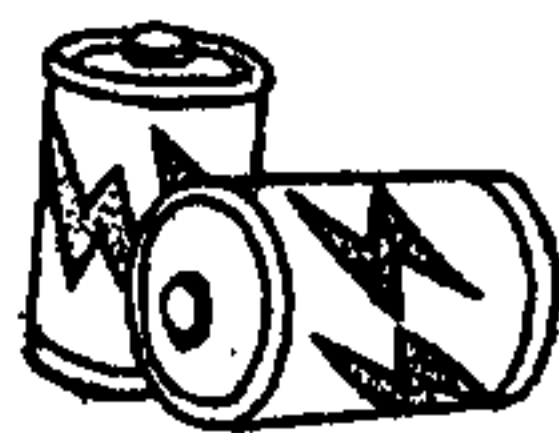
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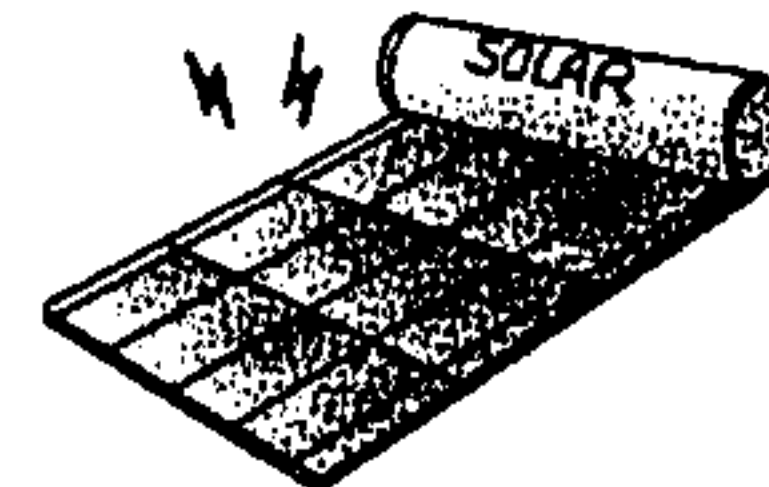
B



C



D



12 Diagram 5 shows that Hilmi and Adha are having a chit-chat over the brick wall that separates their houses.
Rajah 5 menunjukkan Hilmi dan Adha sedang berbual di antara tembok pagar yang memisahkan rumah mereka.

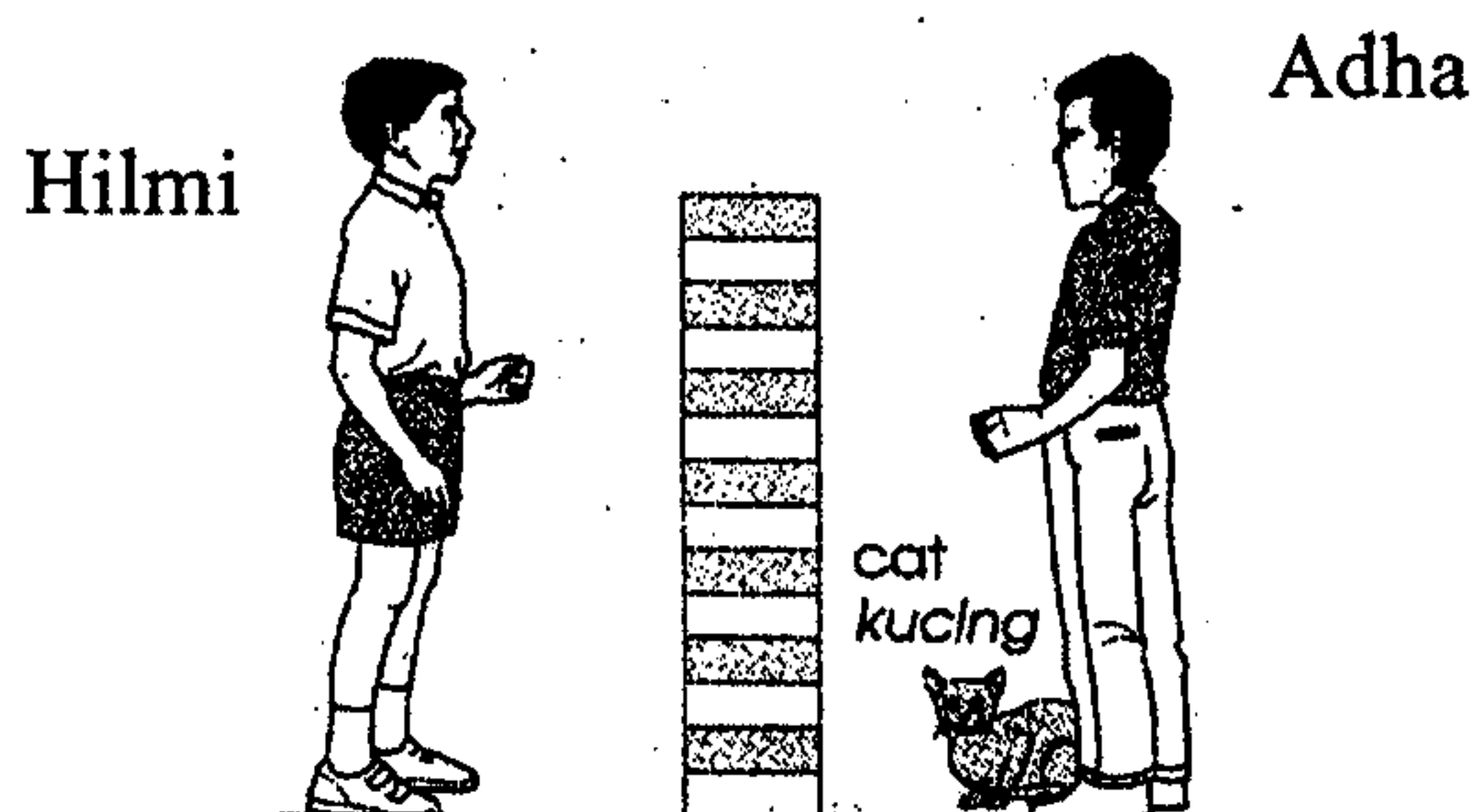


Diagram 5
Rajah 5

Hilmi can hear the sound of a cat but he cannot see the cat. Give a reason.
Hilmi dapat mendengar bunyi kucing tetapi dia tidak dapat melihat kucing tersebut. Berikan satu alasan.

- A Light cannot be blocked
Cahaya tidak boleh dihalang.
- B Light travels in straight lines.
Cahaya bergerak dalam garis lurus.
- C Light travels in all directions.
Cahaya bergerak ke semua arah.
- D Light can be reflected.
Cahaya boleh dipantulkan.

- 13 Which of the following is the correct way to read the temperature on the scale of a thermometer ?
 Antara berikut, yang manakah cara yang betul untuk membaca suhu pada skala termometer ?

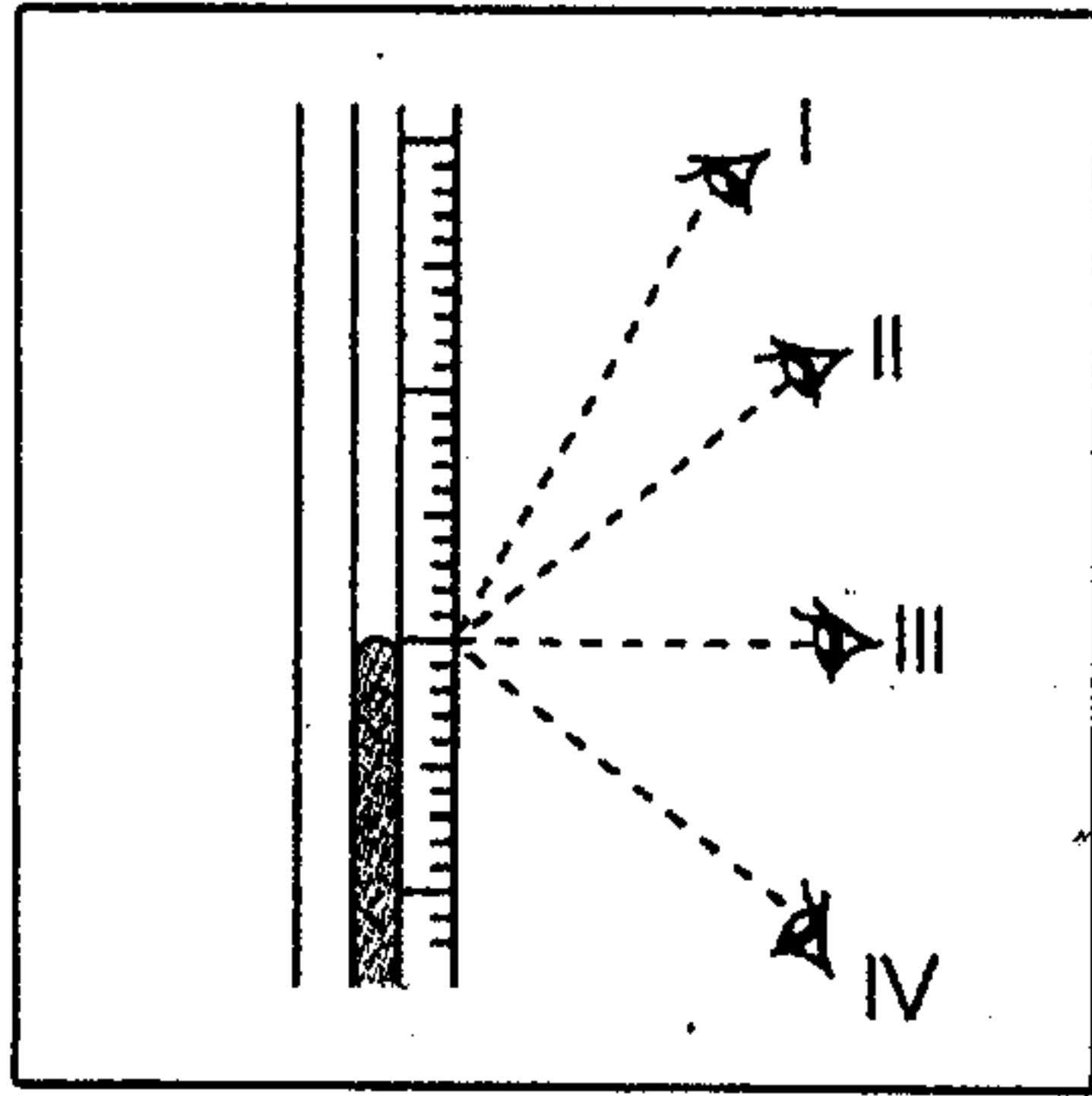


Diagram 6
 Rajah 6

- | | |
|-------|------|
| A I | B II |
| C III | D IV |

- 14 Diagram 7 shows four beakers filled with water of different temperature.
 Rajah 7 menunjukkan empat buah bikar berisi air yang berbeza suhu.

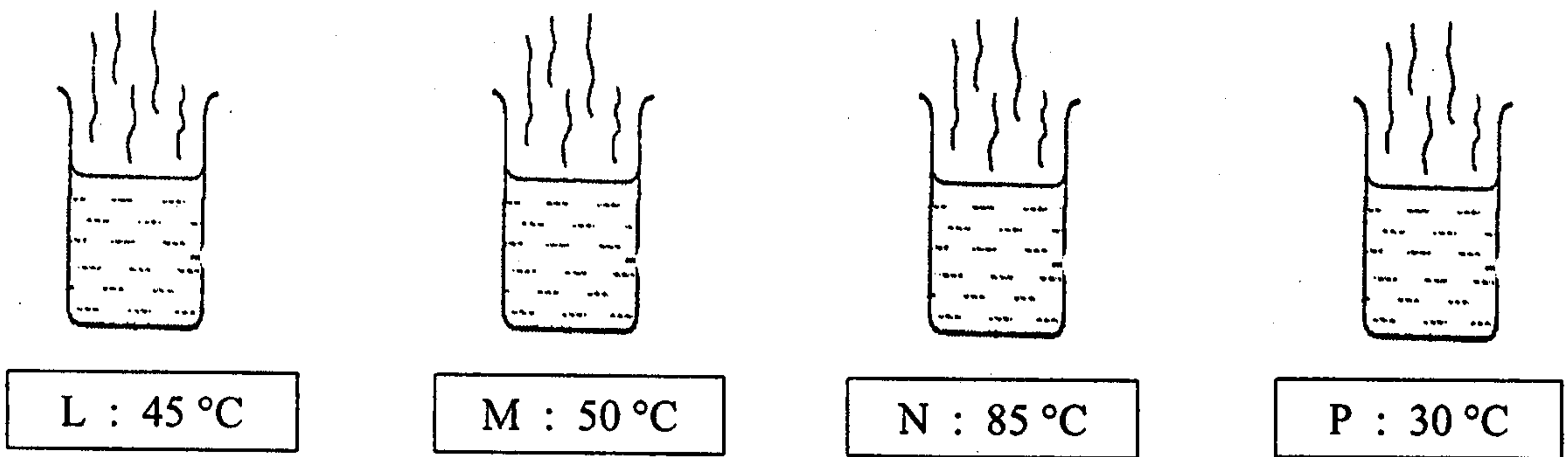


Diagram 7
 Rajah 7

Arrange the beakers of water above in order of increasing hotness.
 Susunkan bikar air di atas mengikut urutan kepanasan yang meningkat.

- A P, L, M, N
- B L, M, N, P
- C N, M, L, P
- D P, N, M, L

- 15 Diagram 8 shows two group of activities.
Rajah 8 menunjukkan dua kumpulan aktiviti.

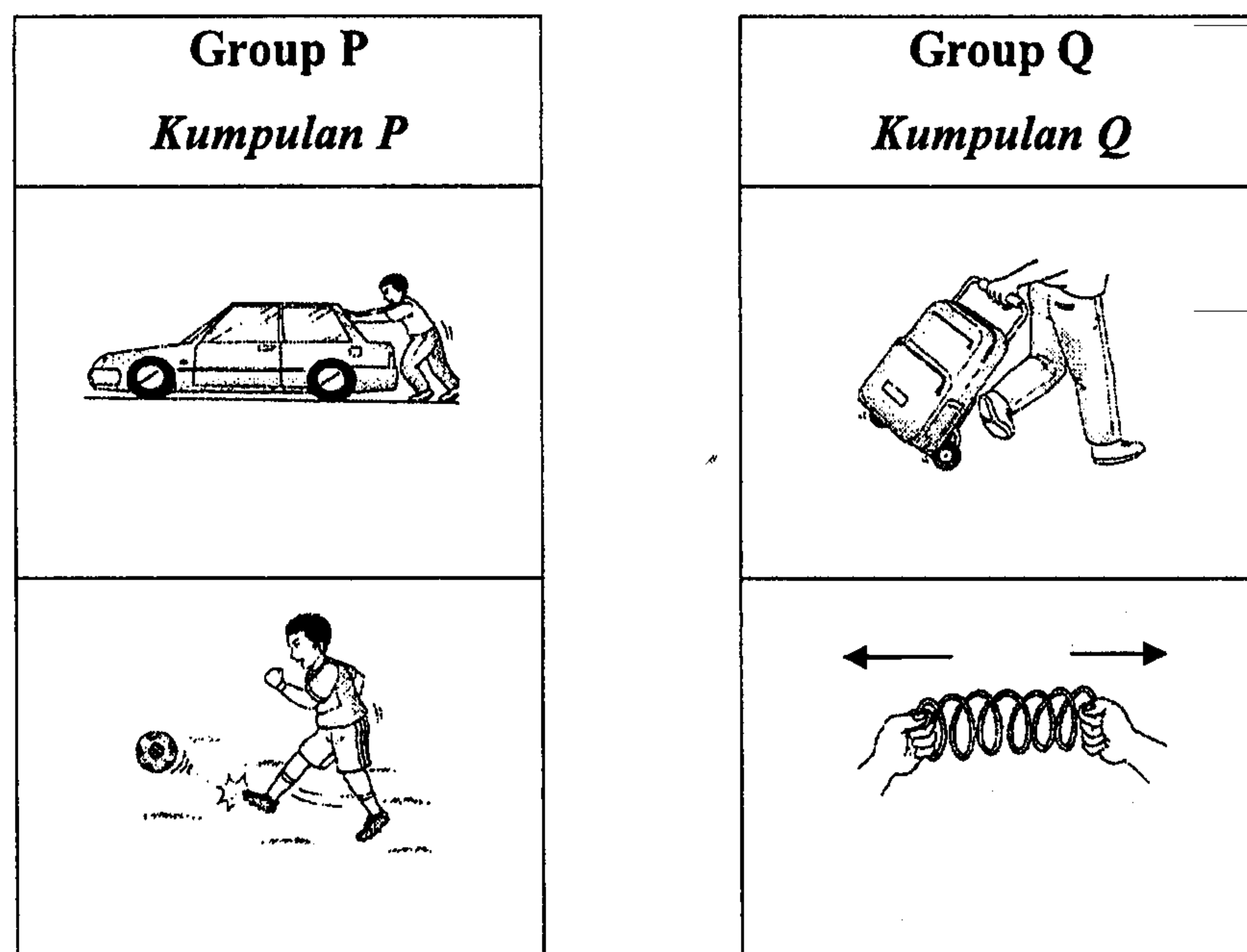


Diagram 8
Rajah 8

Which of the following have been correctly classified into group P and group Q?
Antara yang berikut, yang manakah telah dikelaskan dalam kumpulan P dan kumpulan Q dengan betul?

	P	Q
A	Stretching a rubber band <i>Meregangkan gelang getah</i>	Cycling <i>Mengayuh basikal</i>
B	Rowing a boat <i>Mendayung perahu</i>	Squeezing a sponge <i>Menekan span</i>
C	Pulling a trolley <i>Menarik troli</i>	Sawing a plank <i>Menggergaji papan</i>
D	Pressing a balloon <i>Menekan belon</i>	Raising a flag <i>Menaikkan bendera</i>

- 16 Diagram 9 is a bar chart showing the amount of friction on four different surfaces. *Rajah 9 ialah carta palang yang menunjukkan jumlah daya geseran pada empat permukaan yang berbeza.*

Amount of friction (N)
Jumlah daya geseran (N)

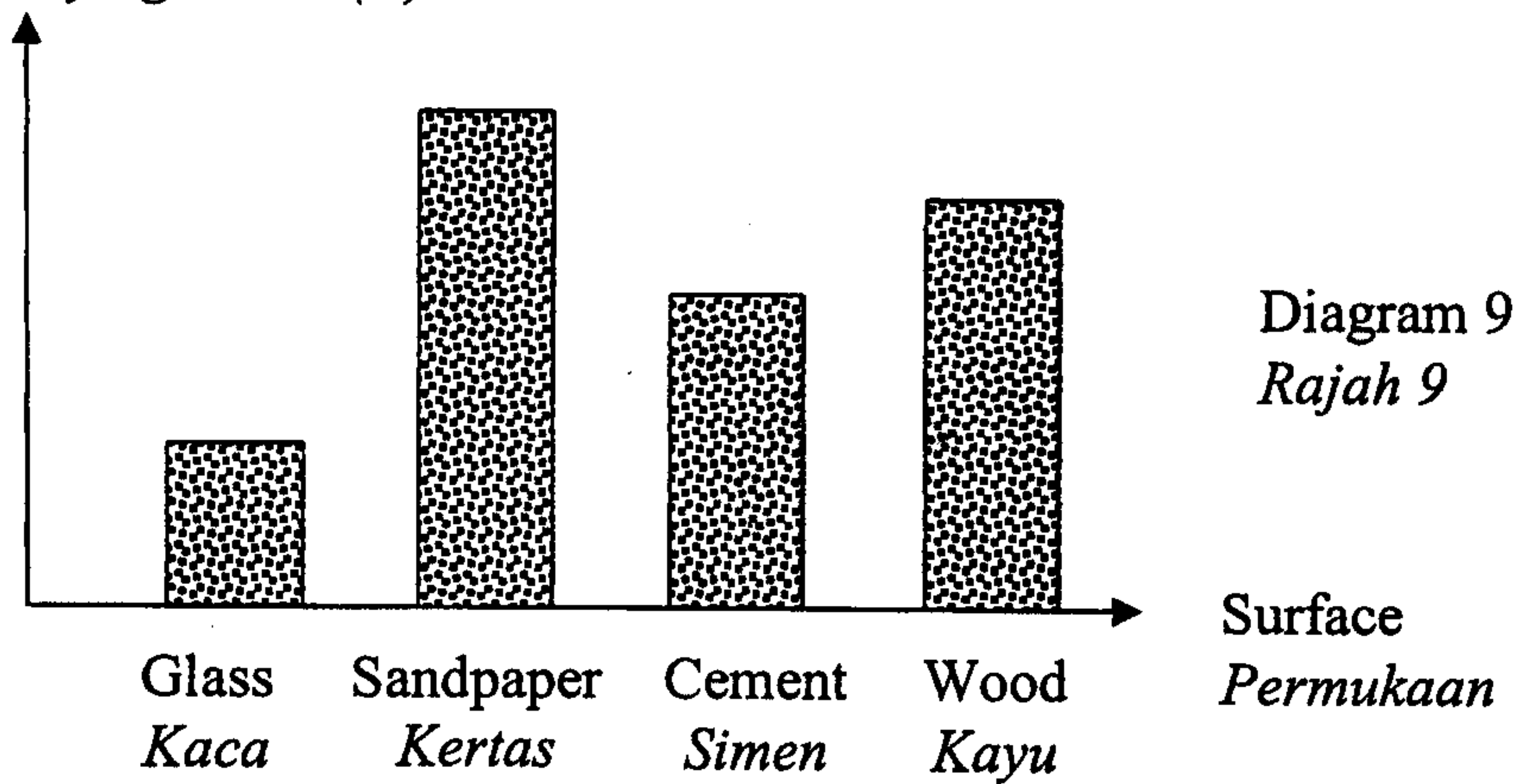


Diagram 9
Rajah 9

Which of the following statements is correct about the amount of friction?
Antara pernyataan berikut, yang manakah betul tentang jumlah daya geseran itu?

- A Less on sand paper surface than on glass
Kurang pada permukaan kertas pasir berbanding kaca
- B Less on wood surface than on cement
Kurang pada permukaan kayu berbanding simen
- C More on glass surface than on cement
Lebih banyak pada permukaan kaca berbanding simen
- D More on sandpaper surface than on wood
Lebih banyak pada permukaan kertas pasir berbanding kayu
- 17 Diagram 10 shows a nail being dropped into a measuring cylinder which consists of oil.
Rajah 10 menunjukkan sebatang paku telah dijatuhkan ke dalam sebuah silinder penyukat yang berisi minyak.

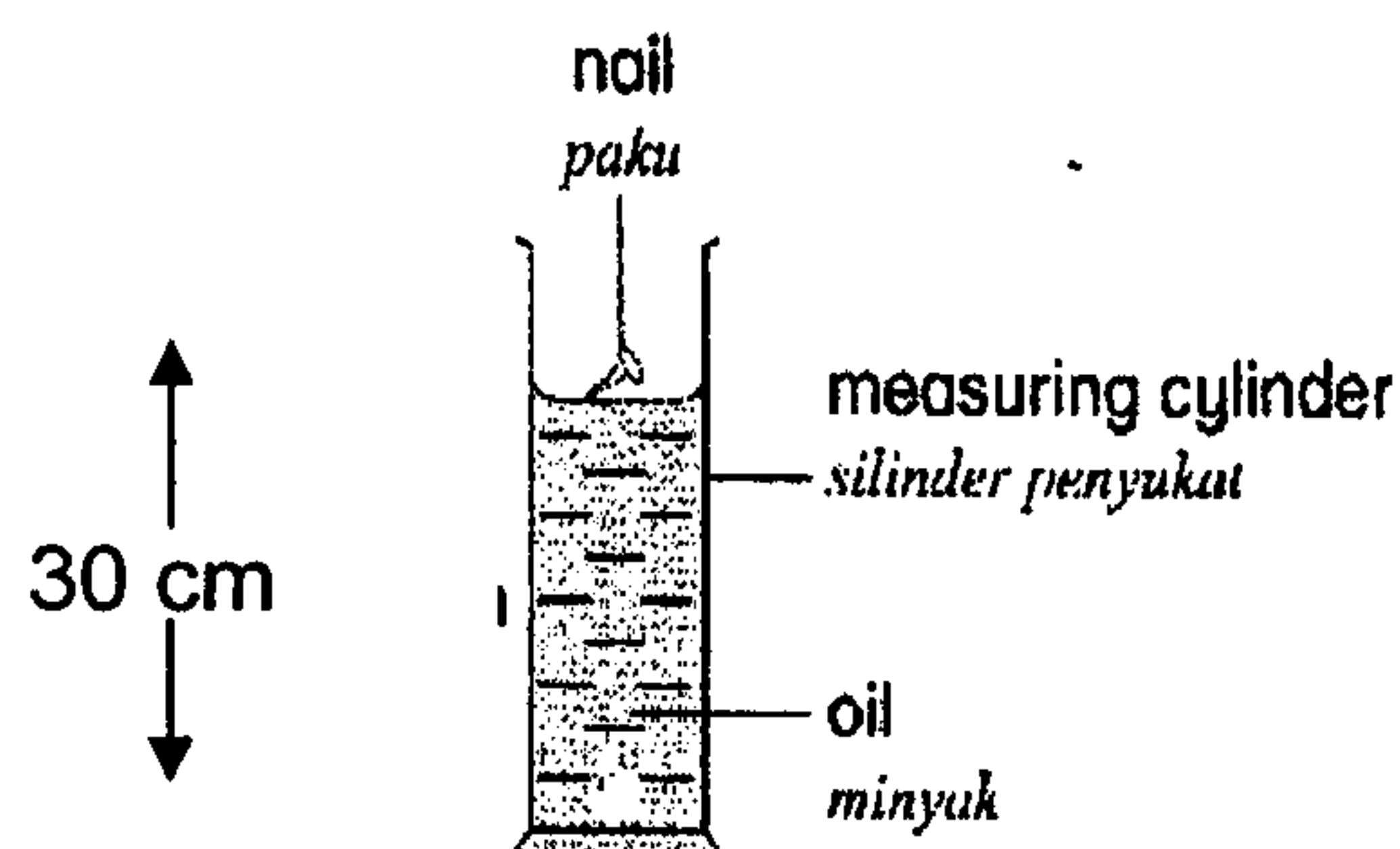


Diagram 10
Rajah 10

The nail takes 5 seconds to reach the bottom of the measuring cylinder. Calculate the speed of the nail.

Paku itu mengambil masa 5 saat untuk sampai ke dasar silinder penyukat. Kirakan kelajuan paku itu.

- A 0.6 cm/s B 6.0cm/s
C 25 cm/s D 35 cm/s

- 18 Diagram 11 shows a set of apparatus used to investigate rusting of an iron nail.
Rajah 11 menunjukkan persediaan radas untuk menyiasat pengamatan sebatang paku besi.

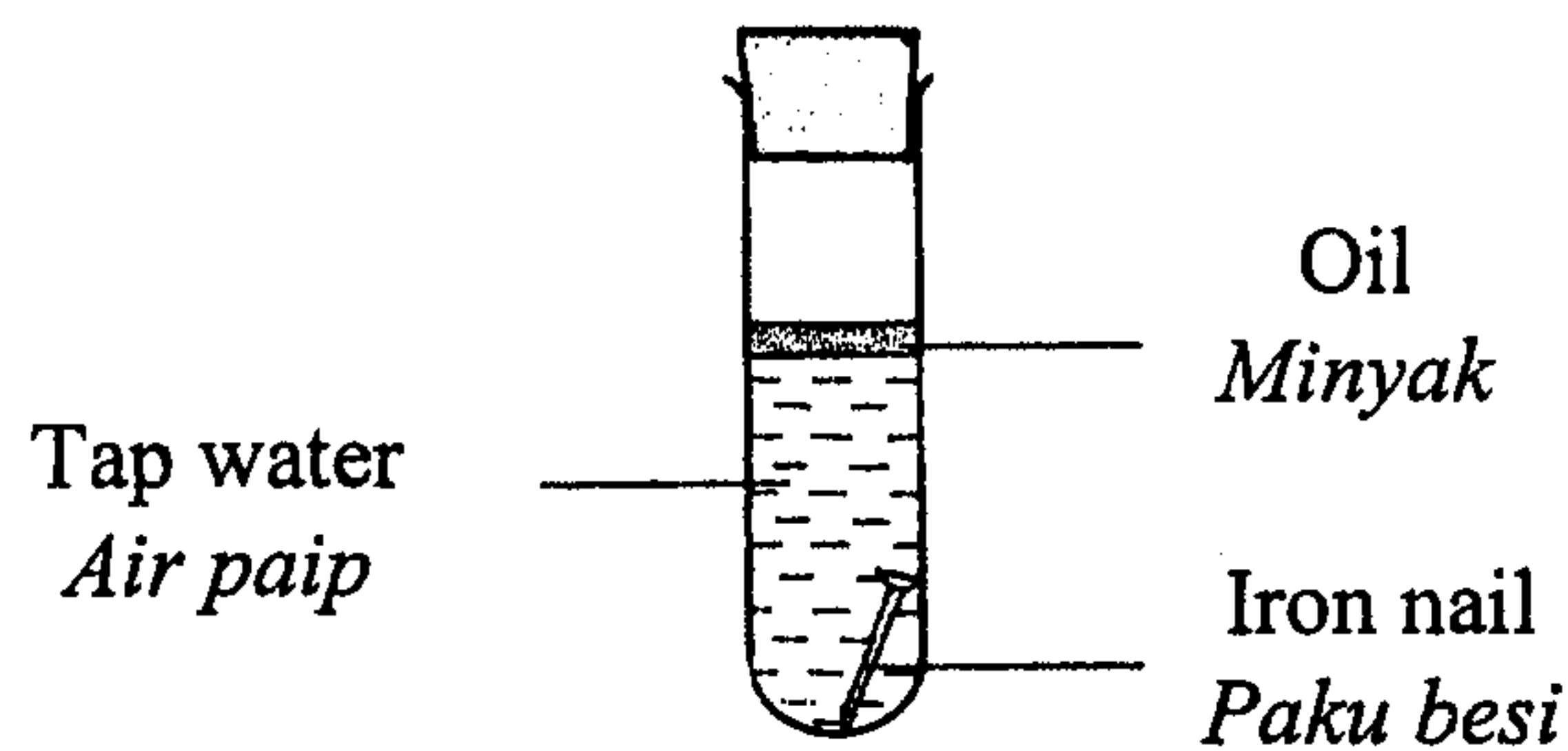


Diagram 11
Rajah 11

After two weeks, the iron nail becomes rusted.

Selepas dua minggu, paku besi itu berkarat.

Choose the suitable method to avoid the iron nail from become rusted.

Pilih kaedah yang sesuai untuk mengelakkan paku besi daripada berkarat.

- | | |
|-----|--|
| I | Use boiled water instead of tap water.
<i>Menggunakan air didih bagi menggantikan air paip.</i> |
| II | Use painted iron nail.
<i>Gunakan paku besi yang telah dicat.</i> |
| III | Put the apparatus under the sunlight.
<i>Letakkan radas di bawah cahaya matahari</i> |
| IV | Put the apparatus in the cupboard
<i>Letakkan radas di dalam almari</i> |
-
- | | | | |
|---|---------------------------------|---|-------------------------------|
| A | I and II
<i>I dan II</i> | B | I and III
<i>I dan III</i> |
| C | II and III
<i>II dan III</i> | D | II and IV
<i>II dan IV</i> |

- 19 Diagram 12 shows an electrical plug.
Rajah 12 menunjukkan satu plug elektrik.

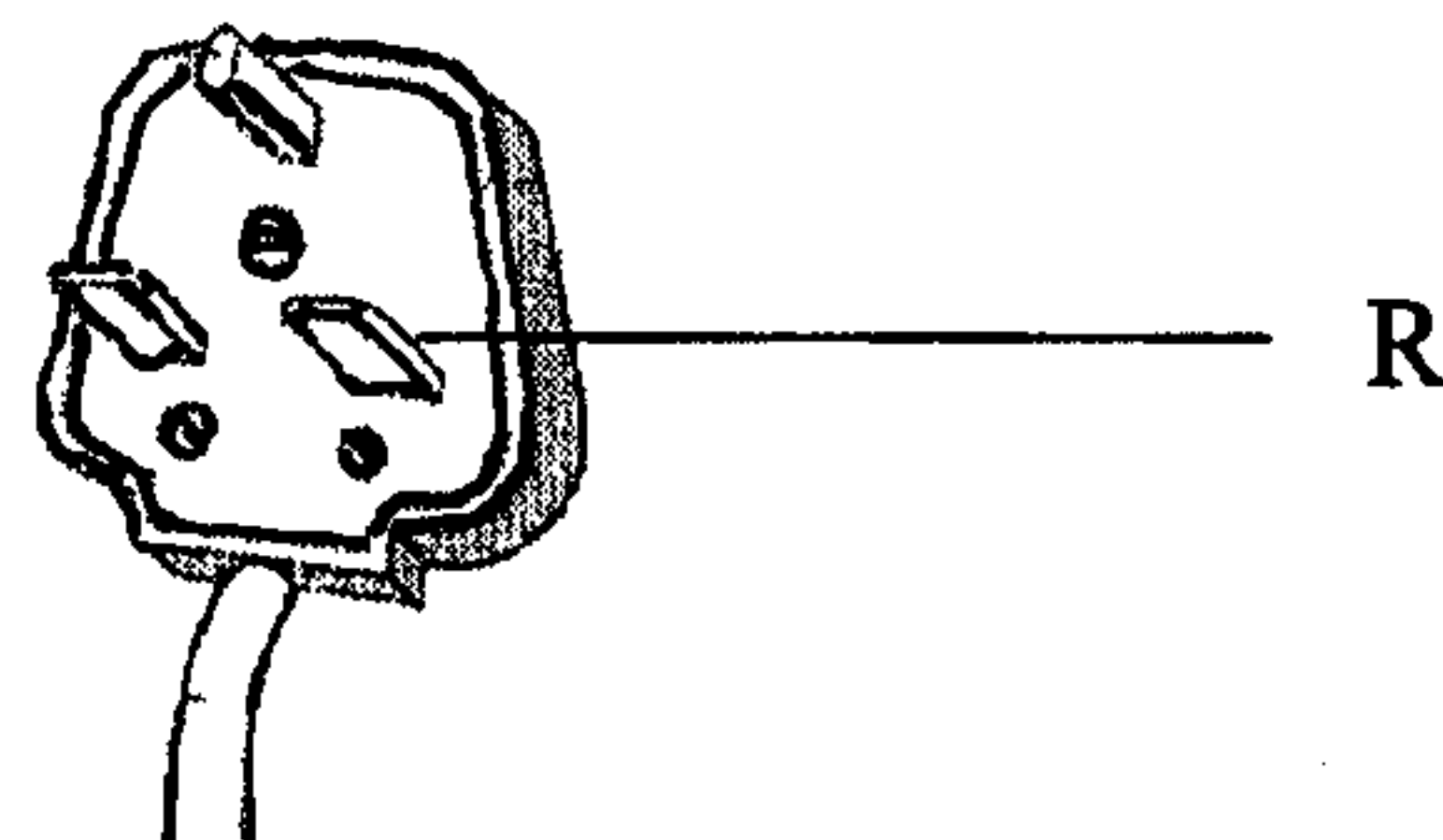


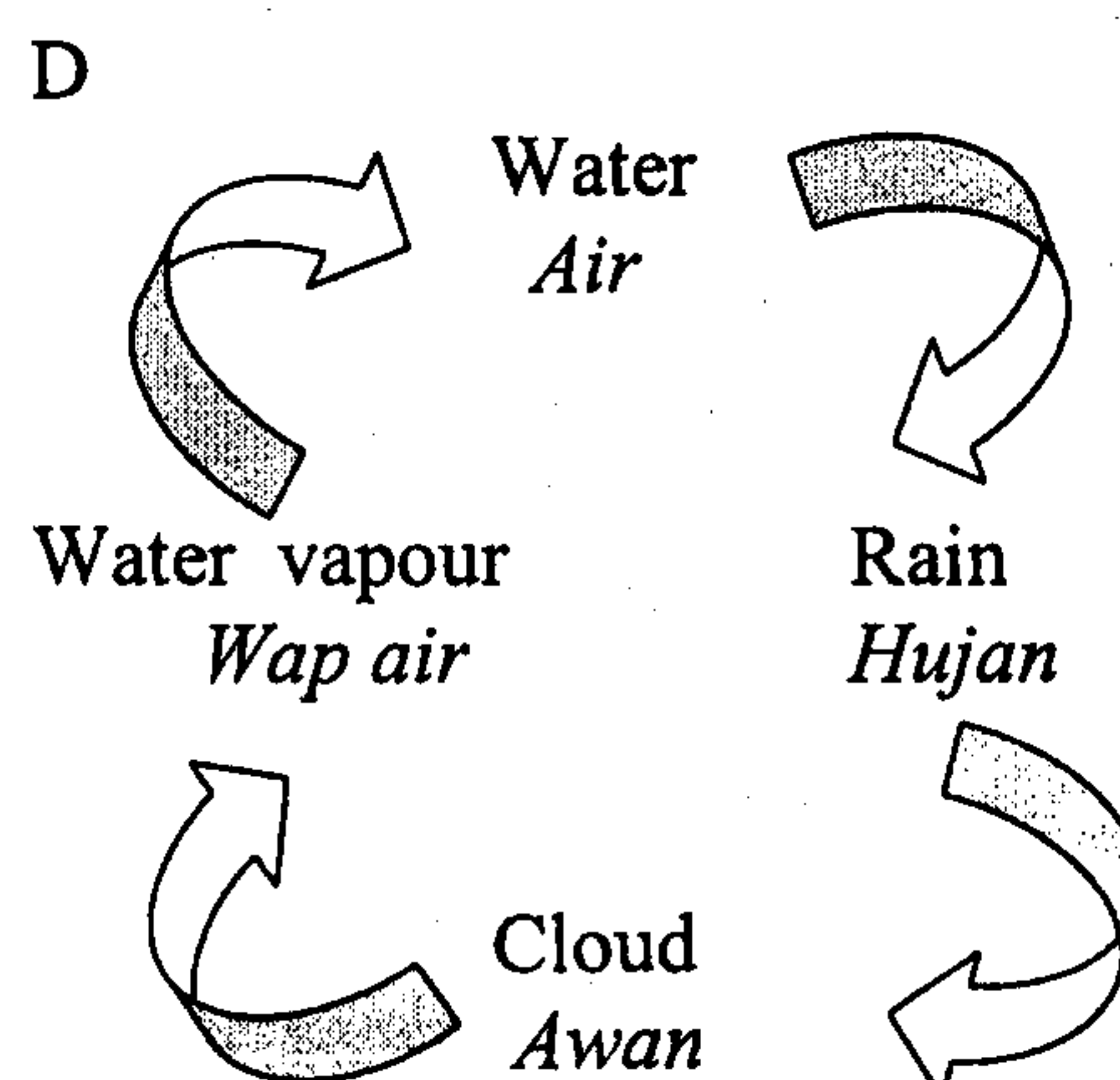
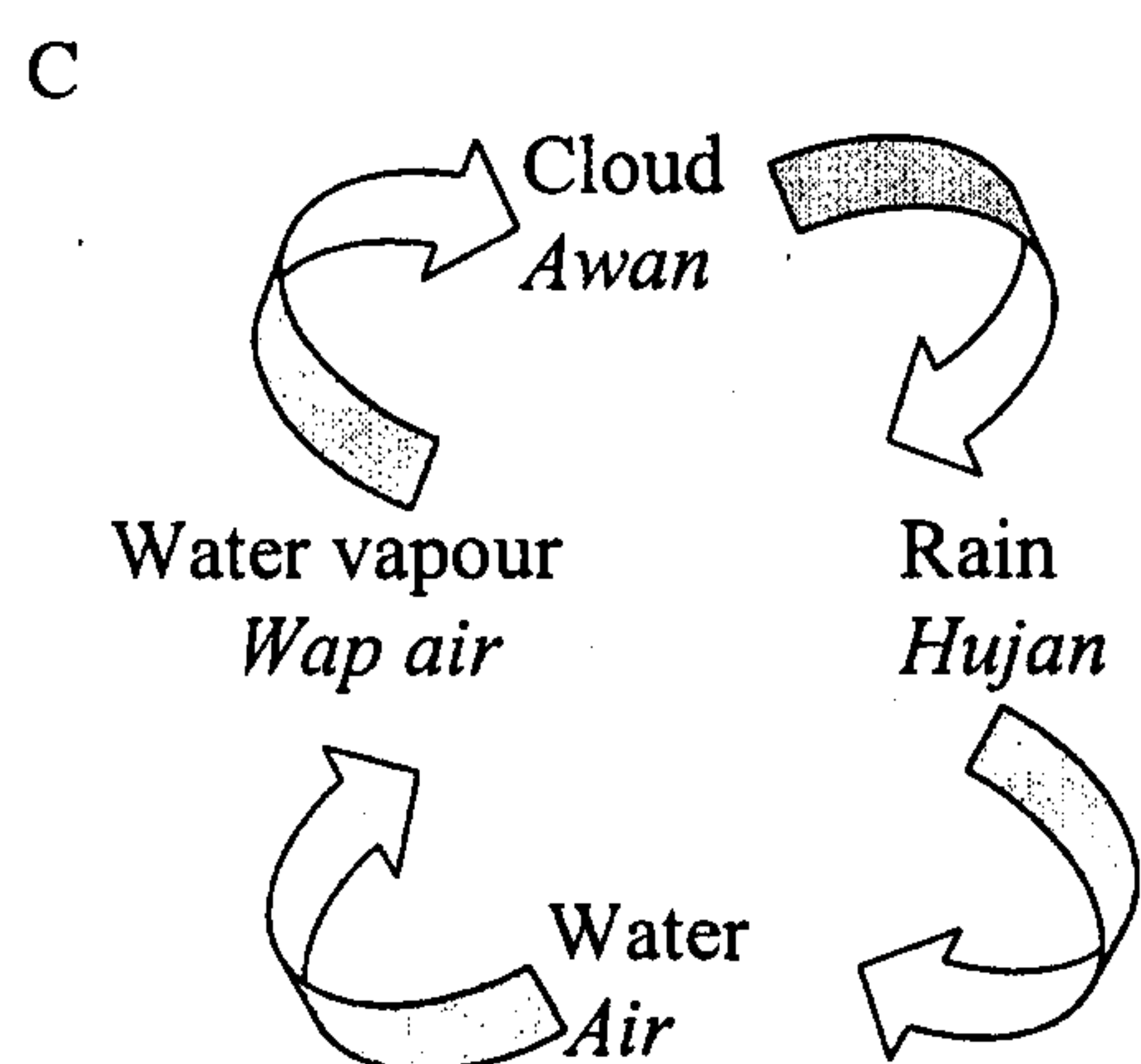
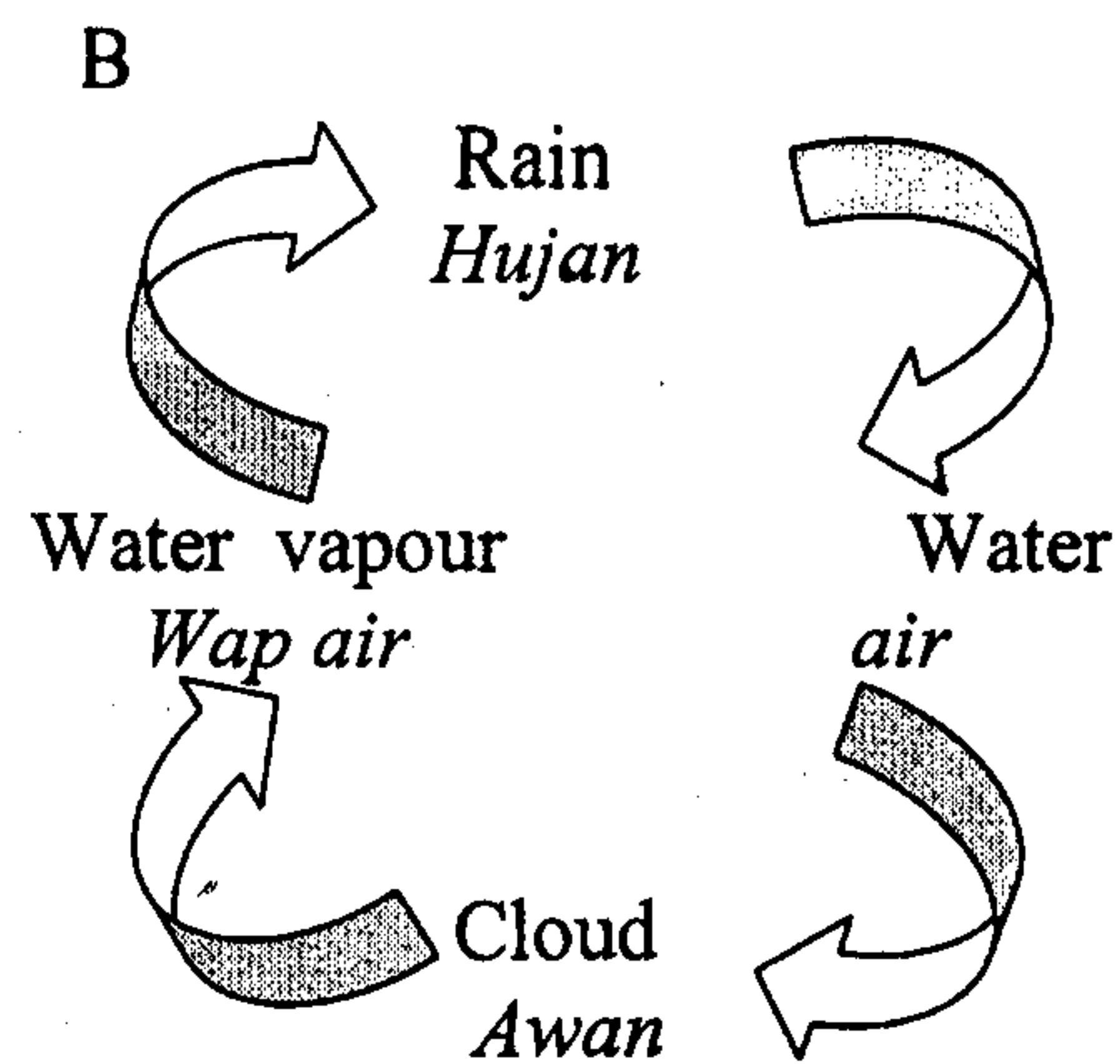
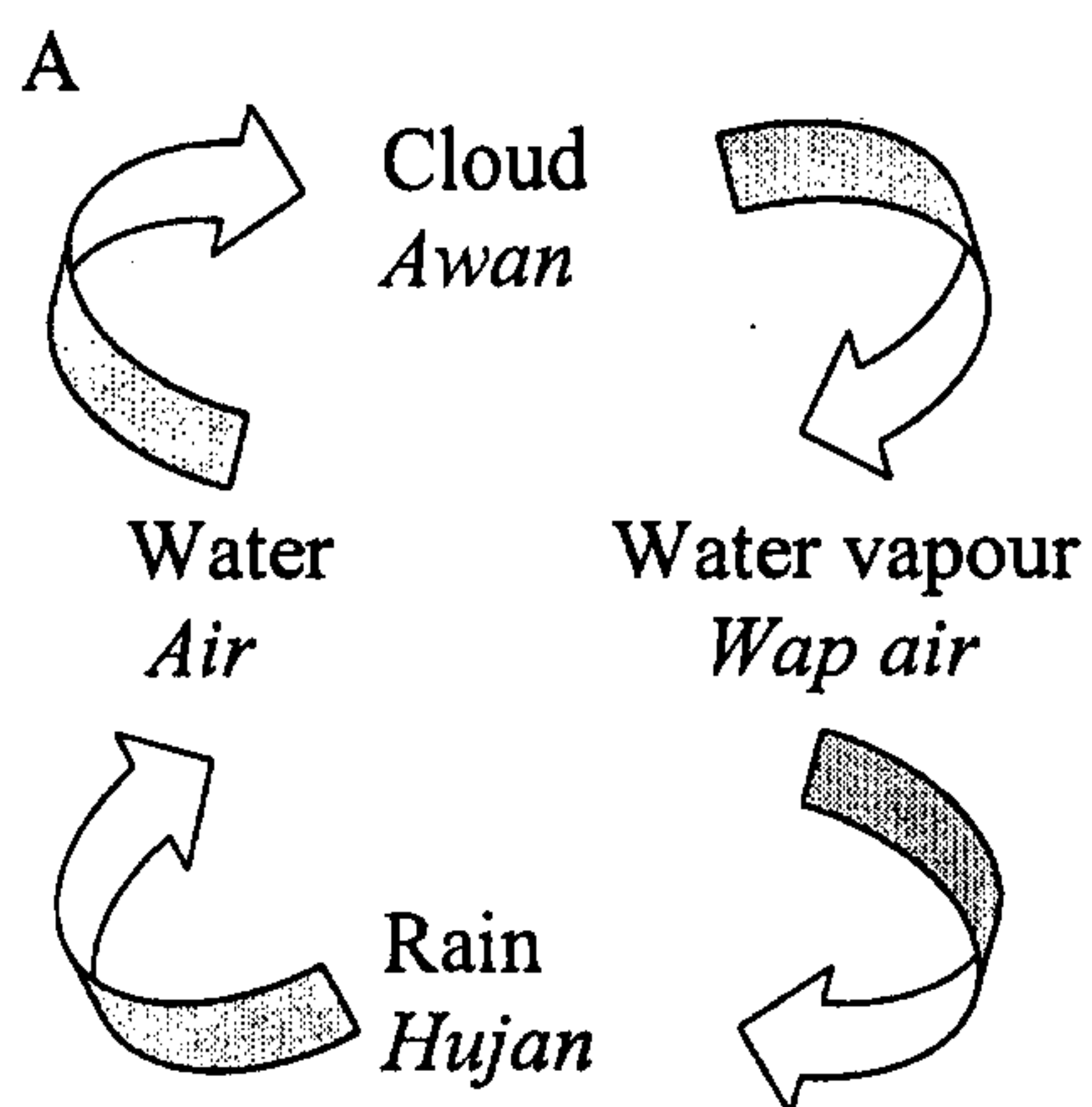
Diagram 12
Rajah 12

What will happen if R is made of glass.

Apakah akan berlaku jika R diperbuat daripada kaca.

- | | | | |
|---|---|---|--|
| A | Electricity can flow
<i>Arus elektrik boleh mengalir</i> | B | Electricity cannot flow
<i>Arus elektrik tidak mengalir</i> |
| C | The plug will break
<i>Plug akan pecah</i> | D | The plug will become hotter
<i>Plug akan menjadi panas.</i> |

- 20 Which of the following is true about water cycle?
Antara berikut, yang manakah benar mengenai kitaran air?



- 21 Which statement explains evaporation?
Pernyataan yang manakah menerangkan penyejatan?

- A A process where liquid turns solid
Proses di mana cecair bertukar kepada pepejal
- B A process where liquid turns to gas at certain temperature
Proses di mana cecair bertukar kepada gas pada suhu tertentu
- C A process where liquid changes to gas
Proses di mana cecair bertukar kepada gas
- D A process where gas turns to liquid
Proses di mana gas bertukar kepada cecair.

- 22 Diagram 13 shows two processes, X and Y, involved in the changing of state of matter.

Rajah 13 menunjukkan dua proses, X dan Y, yang berkait dengan perubahan keadaan bahan.

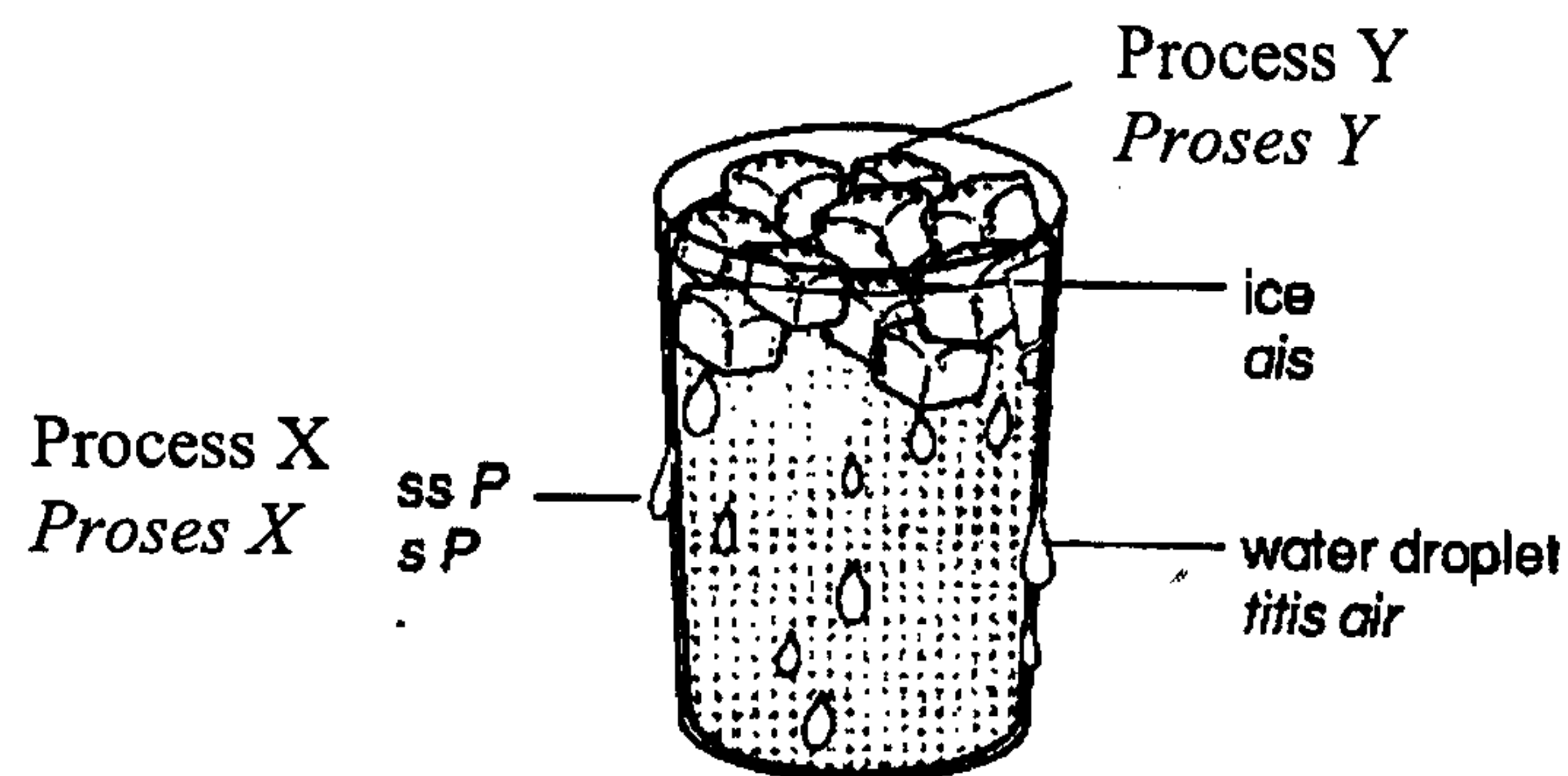


Diagram 13
Rajah 13

What are processes X and Y?
Apakah proses X dan Y?

	Process X <i>Proses X</i>	Process Y <i>Proses Y</i>
A	Evaporation <i>Penyejatan</i>	Freezing <i>Pembekuan</i>
B	Condensation <i>Kondensasi</i>	Melting <i>Peleburan</i>
C	Boiling <i>Pendidihan</i>	Melting <i>Peleburan</i>
D	Melting <i>Peleburan</i>	Freezing <i>Pembekuan</i>

- 23 Rosnah put three plates of rice at different places. She observed the condition of the rice after three days. The results are shown in Table 3.

Rosnah meletakkan tiga pinggan nasi di tempat yang berbeza. Dia memerhatikan keadaan nasi itu selepas tiga hari. Keputusannya ditunjukkan dalam Jadual 3.

Place rice is kept <i>Tempat nasi diletak</i>	Condition of rice <i>Keadaan nasi</i>
On a table <i>Di atas meja</i>	Mouldy and smelly <i>Berkulat dan berbau busuk</i>
In cupboard <i>Di dalam almari</i>	Mouldy and smelly <i>Berkulat dan berbau busuk</i>
In refrigerator <i>Di dalam peti sejuk</i>	Still fresh and not spoilt <i>Masih segar dan tidak basi</i>

Table 3/Jadual 3

Which of the following is **true** about the above observation?

Antara berikut manakah benar tentang pemerhatian di atas?

- A Microorganisms are active in a very high temperature.
Mikroorganisma sangat aktif pada suhu yang sangat tinggi.
 - B Microorganisms die at low temperature
Mikroorganisma mati pada suhu tinggi
 - C Microorganisms are inactive in low temperature
Mikroorganisma tidak aktif pada suhu rendah
 - D Microorganisms are active in low temperature
Mikroorganisma aktif pada suhu rendah
- 24 What is the effect if waste materials are not disposed properly ?
Apakah kesan jika bahan buangan tidak diurus dengan betul?
- A Decrease in the number of pests.
Bilangan haiwan perosak berkurangan.
 - B Bad smell will be produced.
Bau busuk akan terhasil
 - C Maintain the habitat for birds.
Dapat mengekalkan habitat burung
 - D Bad climatic changes.
Perubahan cuaca yang buruk.

25 Diagram 14 shows three different constellations.
Rajah 14 menunjukkan tiga buruj yang berlainan.

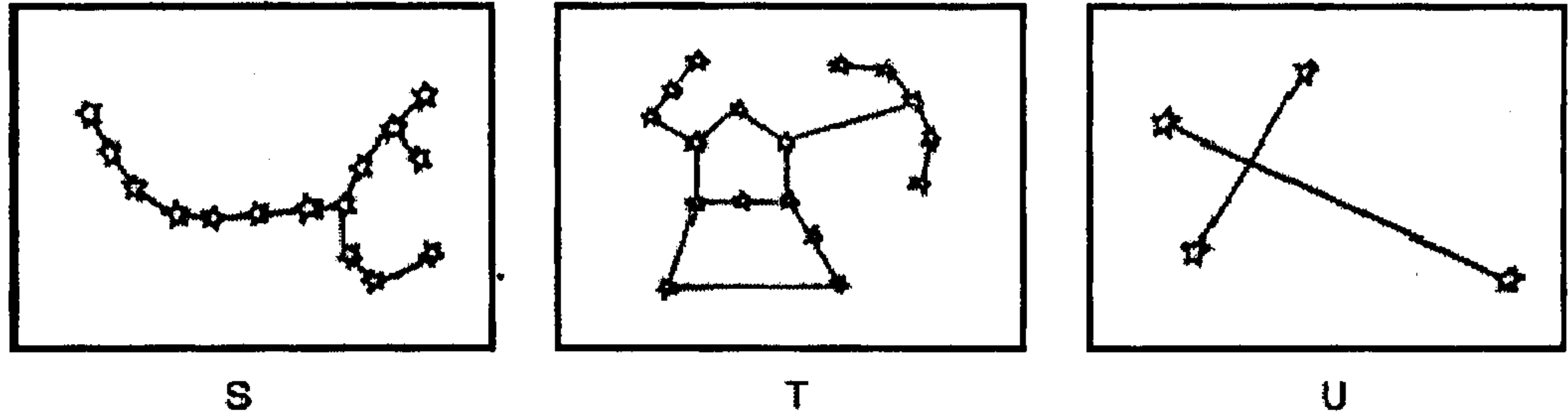


Diagram 14/ *Rajah 14*

Which of the following correctly represents the patterns of S, T and U?
Antara berikut yang manakah mewakili corak S, T dan U?

	S	T	U
A	Scorpion <i>Skorpio</i>	Southern Cross <i>Pari</i>	Orion <i>Belantik</i>
B	Big Dipper <i>Biduk</i>	Orion <i>Belantik</i>	Scorpion <i>Skorpio</i>
C	Orion <i>Belantik</i>	Scorpion <i>Skorpio</i>	Big Dipper <i>Biduk</i>
D	Scorpion <i>Skorpio</i>	Orion <i>Belantik</i>	Southern Cross <i>Pari</i>

26 Diagram 15 shows various shapes of the Moon.
Rajah 15 menunjukkan pelbagai bentuk bulan

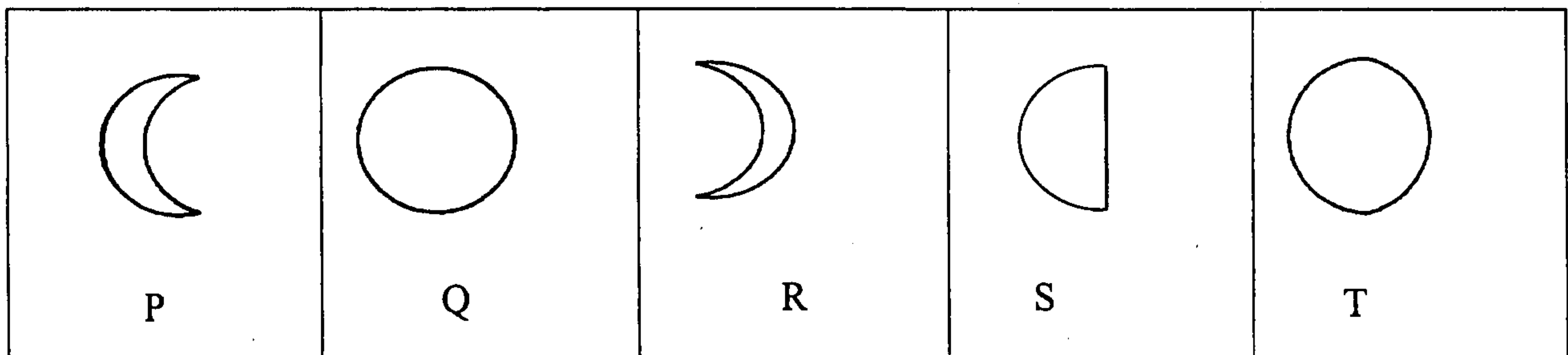


Diagram 15/ *Rajah 15*

Which of these is the correct sequence?
Antara berikut manakah susunan yang betul?

- A T → R → S → Q → P
- B T → Q → R → S → P
- C R → Q → T → S → P
- D P → S → Q → T → R

- 27 Diagram 16 shows methods of observing an eclipse of the Sun.
Rajah 16 menunjukkan kaedah memerhati gerhana Matahari.

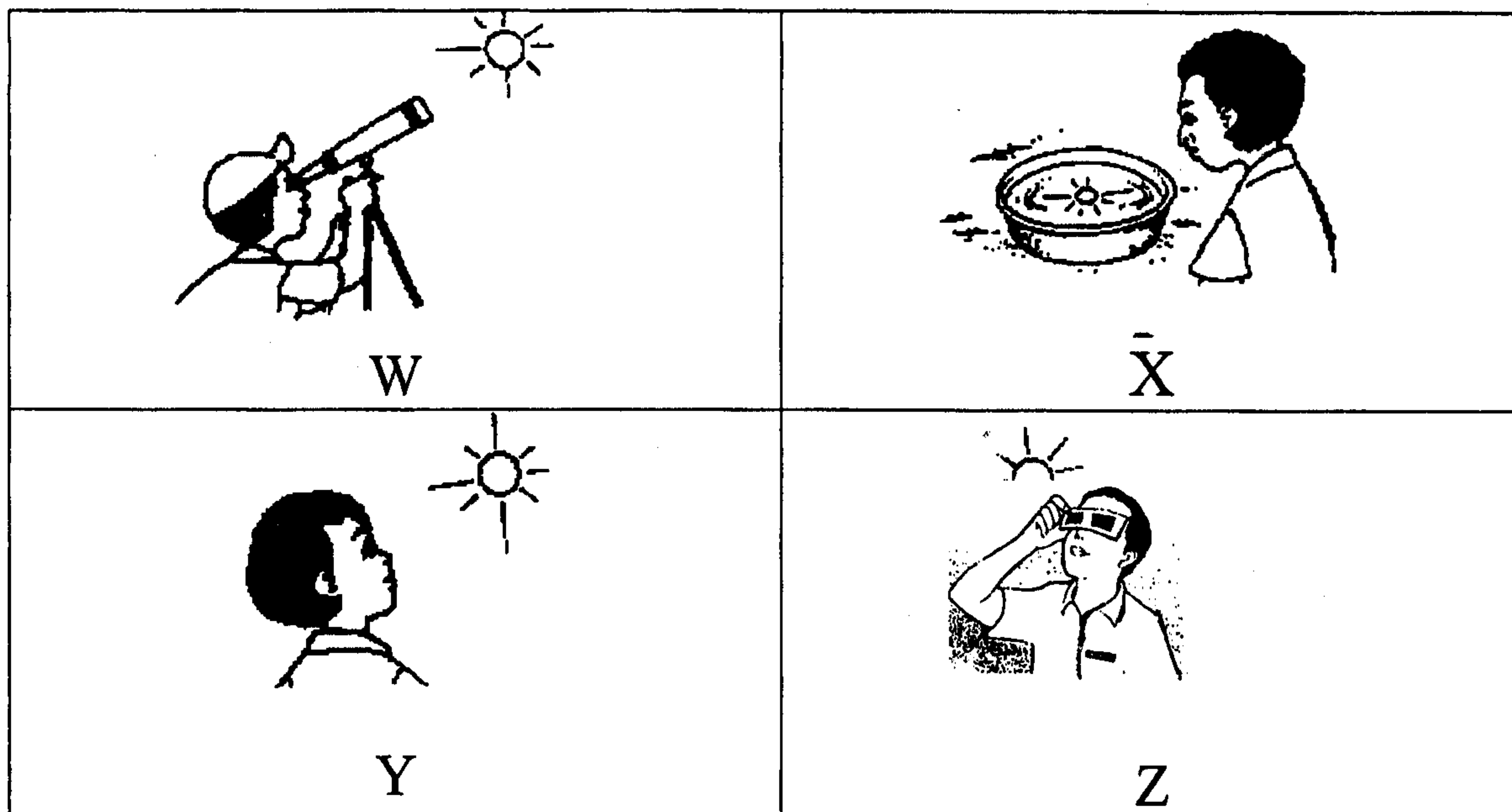


Diagram 16/ Rajah 16

Which of the observation methods are correct?
Antara kaedah pemerhatian berikut, manakah yang betul?

- | | |
|----------------------|----------------------|
| A W and X
W dan X | B Y and Z
Y dan Z |
| C W and Y
W dan Y | D X and Z
X dan Z |

- 28 Diagram 17 shows the shapes of the Moon during the eclipse of the Moon.
Rajah 17 menunjukkan bentuk Bulan semasa Gerhana Bulan.

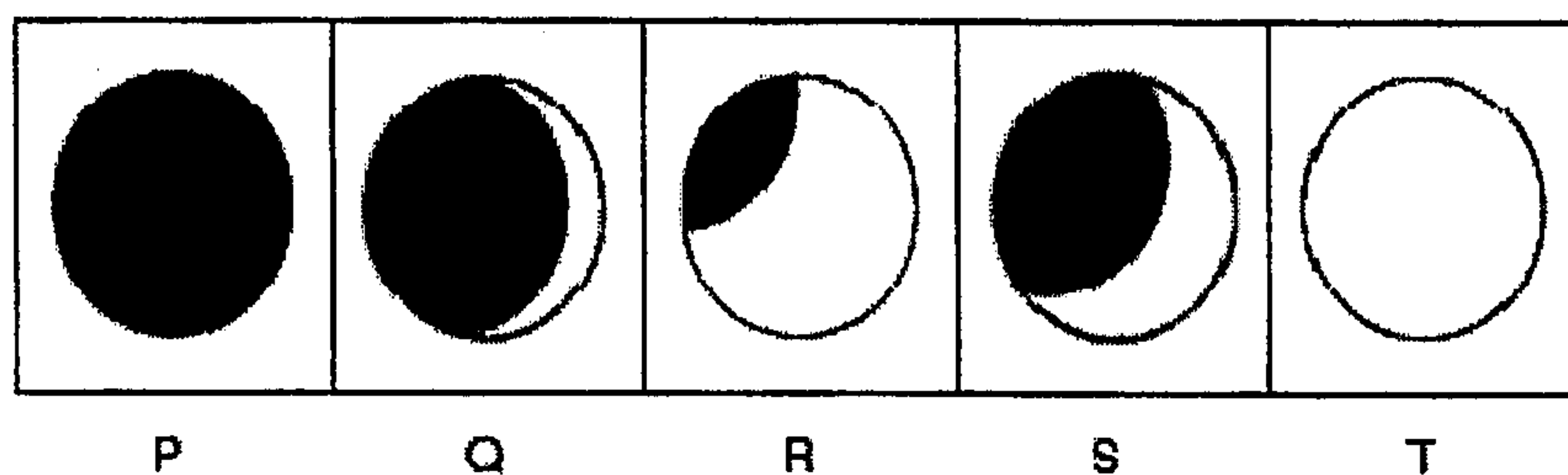


Diagram 17/ Rajah 17

Choose the correct sequence.
Pilih susunan yang betul.

- | |
|-----------------|
| A T, R, S, Q, P |
| B R, S, Q, P, T |
| C P, R, S, Q, T |
| D S, Q, P, T, R |

- 29 The following shows three statements.
Maklumat berikut menunjukkan tiga pernyataan.

* **Amirol contacted his brother in Japan.**
Amirol menghubungi abangnya di Jepun
* **He was talking for half an hour.**
Dia telah berbual selama setengah jam
* **He could see his brother's face clearly**
Dia boleh melihat wajah abangnya dengan jelas

From this situation, what was Amirol using?
Daripada situasi ini, apakah yang telah digunakan oleh Amirol ?

- | | |
|---------------------------------|-------------------------------|
| A Internet
<i>Internet</i> | B Computer
<i>Komputer</i> |
| C Facsimile
<i>Faksimili</i> | D Telephone
<i>Telefon</i> |
- 30 Adib wants to open a lid of biscuit container. How can he open it easily?
Adib hendak membuka penutup bekas biskut. Bagaimanakah dia boleh membukanya dengan mudah ?
- | | |
|---|---|
| A Use a gear
<i>Menggunakan gear</i> | B Use a wedge
<i>Menggunakan baji</i> |
| C Use a lever
<i>Menggunakan sistem tuas</i> | D Use a pulley
<i>Menggunakan sistem takal</i> |

SECTION B
BAHAGIAN B

(20 marks)
(20 markah)

The suggested time for this section is 30 minutes. If you are unable to answer a question, proceed to the next question.

Masa yang dicadangkan untuk bahagian ini ialah 30 minit. Sekiranya kamu tidak dapat menjawab sesuatu soalan, teruskan menjawab soalan berikutnya.

Answer **all** questions.

Jawab semua soalan.

- 1 An investigation is carried out to study the relationship between some living things in the paddy field. The observations are recorded in the Table 1.

Satu penyiasatan dijalankan untuk mengkaji hubungan antara hidupan di suatu sawah padi. Pemerhatian telah direkodkan seperti di dalam Jadual 1.

Week <i>Minggu</i>	1	2	3	4
Number of frogs <i>Bilangan katak</i>	10	15	20	25
Number of grasshoppers <i>Bilangan belalang</i>	80	72	63	53

Table 1
Jadual 1

- a) What is the aim of this investigation ?

Apakah tujuan penyiasatan ini ?

(1 mark / markah)

- b) What is the trend of change in the number of frogs ?

Apakah corak perubahan bilangan katak ?

(1 mark / markah)

- c) State the relationship between the number of frogs and the number of grasshoppers .

Nyatakan hubungan antara bilangan katak dan bilangan belalang.

(1 mark / markah)

- d) Predict the number of grasshoppers on the 5th week .

Ramalkan bilangan belalang pada minggu yang ke-lima.

(1 mark / markah)

- 2 Three similar containers are filled with water of same volume and temperature. The containers are wrapped with different types of materials. The containers are left for 20 minutes.

Diagram 1 shows the result of the investigation.

Tiga buah bekas diisi dengan air yang mempunyai isipadu dan suhu yang sama. Ketiga-tiga bekas tersebut dibalut dengan bahan yang berbeza dan dibiarkan selama 20 minit.

Rajah 1 menunjukkan keputusan penyiasatan tersebut.

Temperature of water after 20 minutes
Suhu air selepas 20 minit

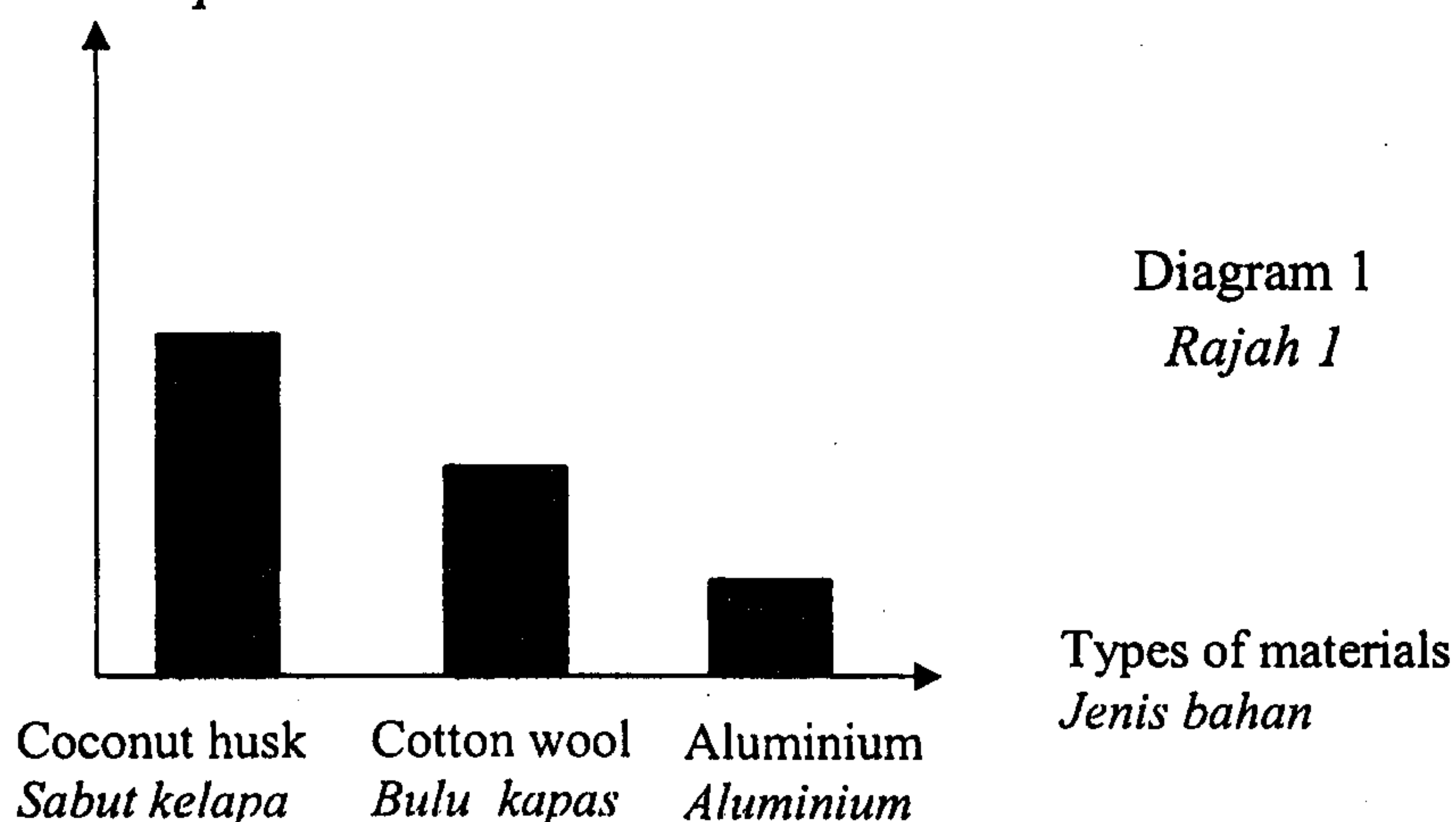


Diagram 1
Rajah 1

- (a) What is the trend of the change in the temperature of water after 20 minutes?
Apakah corak perubahan suhu air selepas 20 minit?

[1 mark /markah]

- (b) State,
Nyatakan,

i) what is changed (manipulated variable)
apakah yang diubah (pembolehubah dimanipulasi)

ii) what is observed (responding variable)
apakah yang diperhati (pembolehubah bergerakbalas)

[2 marks/markah]

- (c) Give one reason why the temperature of water in container that wrapped with coconut husk loses the heat slowest.

Beri satu sebab (inferens) mengapa suhu air dalam bekas yang dibalut dengan sabut kelapa mengalami kehilangan haba paling perlahan.

[1 mark/markah]

- 3 Diagram 2 shows an investigation carried out by a group of pupils.
Rajah 2 menunjukkan suatu penyiasatan yang dijalankan oleh sekumpulan murid.

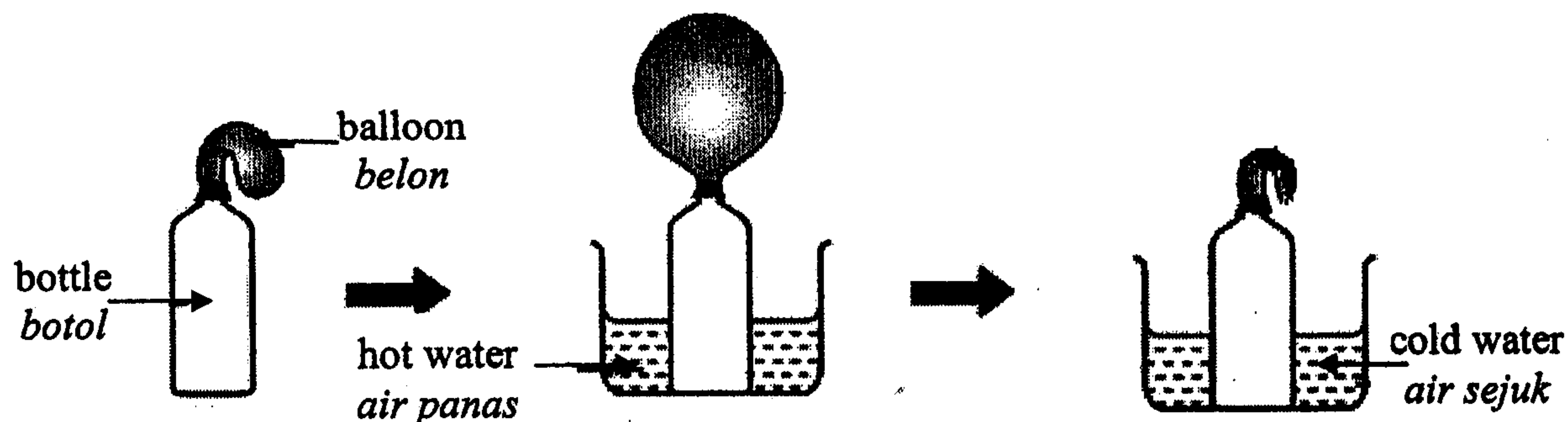


Diagram 2
Rajah 2

- (a) What is the aim (purpose) of this investigation?
Apakah tujuan penyiasatan ini?

[1 mark/markah]

- (b) Give one reason (inference) based on the result of this investigation.
Berikan satu sebab (inferens) berdasarkan keputusan penyiasatan ini.

[1 mark/markah]

- (c) State one information gathered from this investigation.
Nyatakan satu maklumat yang dikumpul dalam penyiasatan ini.

[1 mark/markah]

- (d) Predict the size of the balloon when the bottle is put in the warm water.
Ramalkan saiz belon apabila botol diletakkan di dalam air suam.

[1 mark/markah]

- 4 Table 2 shows four planets with the duration of time to make one complete movement around the Sun.

Jadual 2 menunjukkan empat buah planet dengan tempoh masa untuk membuat satu peredaran lengkap mengelilingi Matahari.

Planet <i>Planet</i>	Duration of time to make one complete movement around the Sun. (day) <i>Tempoh masa untuk membuat satu peredaran lengkap mengelilingi Matahari (hari)</i>
J	59
K	225
L	365 $\frac{1}{4}$
M	687

Table 2
Jadual 2

- (a) Give one reason about the differences in the duration of time for planets to make one complete movement around the Sun.

Beri satu sebab mengenai perbezaan dalam tempoh masa bagi planet-planet untuk membuat satu peredaran lengkap mengelilingi Matahari.

[1 mark/markah]

- (b) What is the relationship between your answer in 4(a) and the duration of time to make one complete movement around the Sun.

Apakah hubungan antara jawapan kamu di 4(a) dengan tempoh masa untuk membuat satu peredaran lengkap mengelilingi Matahari.

[1 mark/markah]

- (c) State what is observed (responding variable) in this investigation?

Nyatakan apa yang diperhatikan (pembolehubah bergerak balas) dalam penyiasatan ini?

[1 mark/markah]

The temperature of planets is different because the distance between the planets and the Sun is different.

Suhu planet-planet berbeza kerana jarak antara planet-planet dengan Matahari adalah berbeza.

- (d) Write one conclusion based on the above statement.

Tulis satu kesimpulan berdasarkan pernyataan di atas.

[1 mark/markah]

- 5 Diagram 3 shows two inclined planes with same length are used to determine the force needed to pull the load up. All the inclined planes have different angles.
Rajah 3 menunjukkan dua satah condong yang sama panjang digunakan untuk menentukan daya yang diperlukan untuk menarik beban ke atas. Kedua-dua satah condong mempunyai sudut kecondongan yang berlainan.

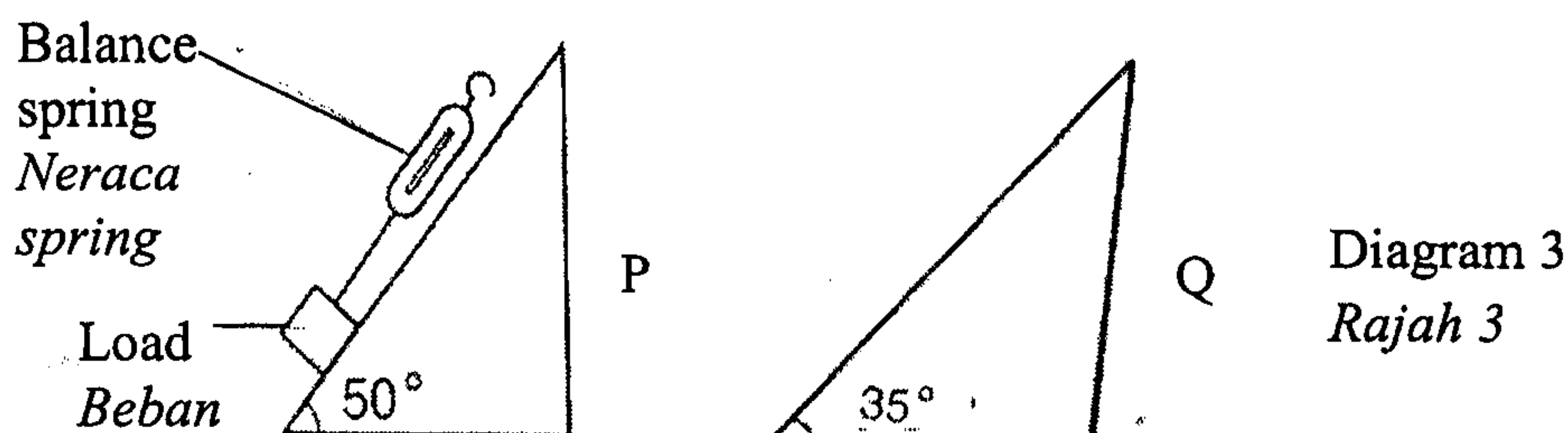


Table 3 shows the result of the investigation.
Jadual 3 menunjukkan keputusan penyiasatan.

Inclined plane <i>Satah condong</i>	Force needed to lift the load up (N) <i>Daya yang diperlukan untuk menarik beban ke atas (N)</i>
P	15
Q	10

Table 3
Jadual 3

- (a) Write one observation based on this investigation.
Tulis satu pemerhatian berdasarkan penyiasatan ini.
- _____
- _____
- [1 mark/markah]
- (b) State what is kept the same (constant variable) in this investigation.
Nyatakan apa yang dikekalkan (pembolehubah dimalarkan) dalam penyiasatan ini.
- _____
- _____
- [1 mark/markah]
- (c) Predict the force needed to pull the load up if the angle of the inclined plane is 20° .
Ramalkan daya yang diperlukan untuk menarik beban ke atas jika sudut kecondongan satah condong ialah 20° .
- _____
- _____
- [1 mark/markah]

The force needed to pull the load up also depends on the type of the surface of the inclined plane.

Daya yang diperlukan untuk menarik beban ke atas juga dipengaruhi oleh jenis permukaan satah condong.

- (d) Write one conclusion based on the statement above.
Tulis satu kesimpulan berdasarkan pernyataan di atas.
- _____
- _____
- [1 mark/markah]

KERTAS SOALAN TAMAT