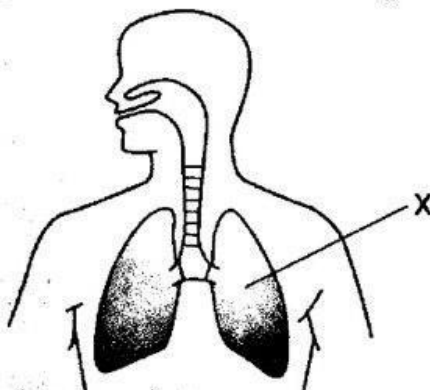


- 1 Rajah di bawah menunjukkan organ yang terlibat dalam pernafasan manusia.  
The diagram below shows the organ involved in human breathing.



- (a) Namakan organ X.  
Name the organ X.

X : \_\_\_\_\_

- (b) Mengapakah organ X penting kepada manusia?  
Why is organ X important to humans?

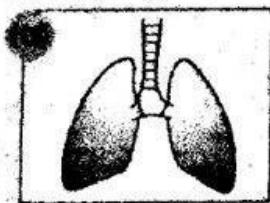
- (c) Nyatakan apa yang terjadi semasa bernafas.  
State what happens during breathing.

(i) Semasa menarik nafas, udara \_\_\_\_\_ paru.  
During inhalation, the air is \_\_\_\_\_ the lungs.

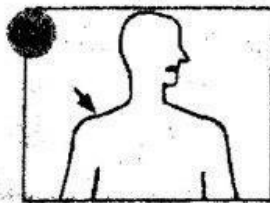
(ii) Semasa menghembus nafas, udara \_\_\_\_\_ paru.  
During exhalation, the air is \_\_\_\_\_ the lungs.

- (d) Apakah hasil kumuh yang dikeluarkan oleh organ X?  
What excretory product is released by organ X?

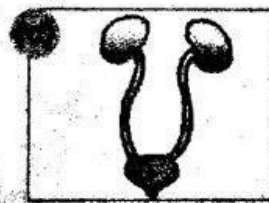
- 2 Padankan organ perkumuhan di bawah dengan hasil kumuh yang dihasilkan.  
Match the excretory organs below with the excretory product produced.



Air kencing  
Urine

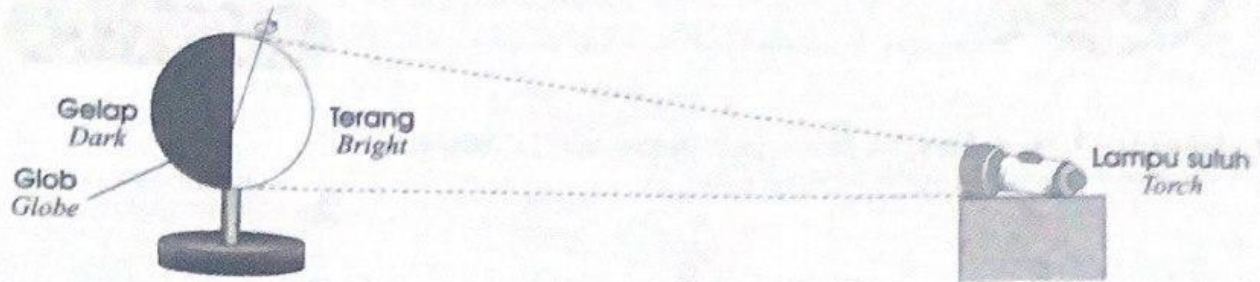


Karbon dioksida  
Carbon dioxide



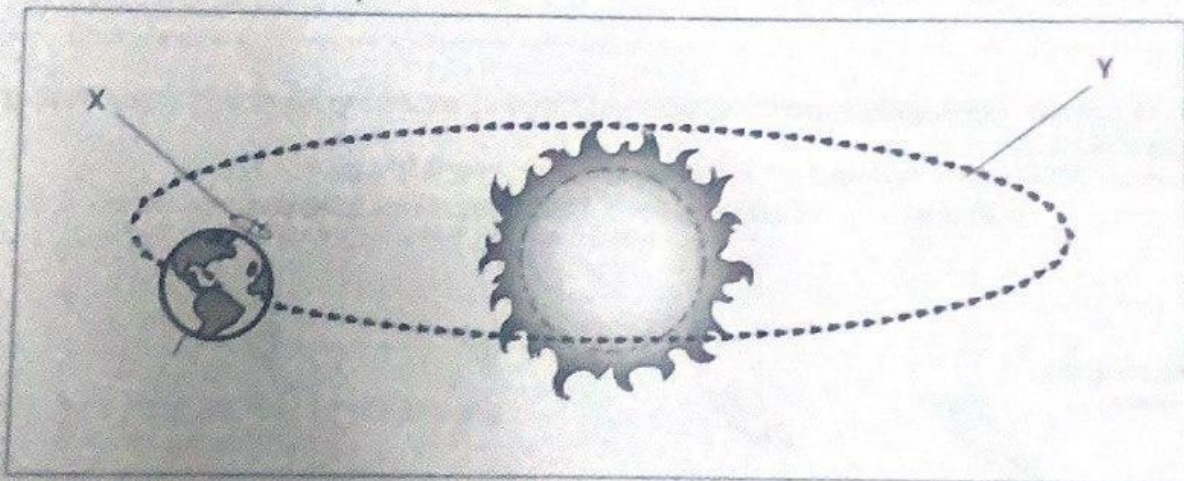
Peluh  
Sweat

- 3 Alatan yang ditunjukkan dalam rajah di bawah digunakan dalam suatu penyiasatan. Lampu suluh dipasang dan glob diputarakan.  
The tools shown in the diagram below are used in an investigation. The torch is switched on and the glob is rotated.



- (a) Apakah tujuan penyiasatan ini?  
What is the purpose of this investigation?
- (b) Terangkan tentang perubahan permukaan glob.  
Explain about the changes of the surface of the globe.
- (c) Apakah yang boleh disimpulkan daripada penyiasatan ini?  
What can be concluded from this investigation?

- 4 Rajah di bawah menunjukkan suatu fenomena.  
The diagram below shows a phenomenon.



- (a) Apakah fenomena yang ditunjukkan oleh pergerakan Bumi berlabel X dan Y?  
What is the phenomenon shown by the movement of the Earth labelled X and Y?

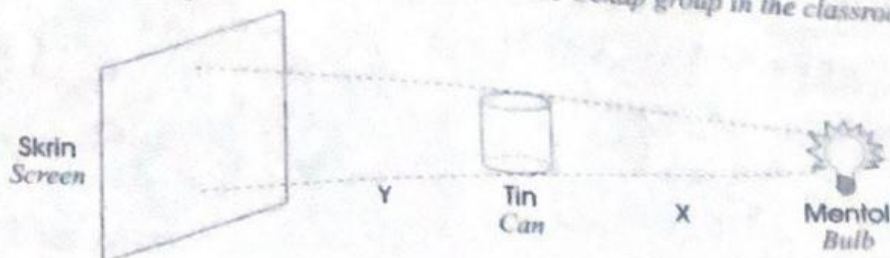
- (i) X: \_\_\_\_\_
- (ii) Y: \_\_\_\_\_

- (b) Nyatakan tempoh masa yang diambil oleh Bumi untuk membuat satu pergerakan lengkap X dan Y.

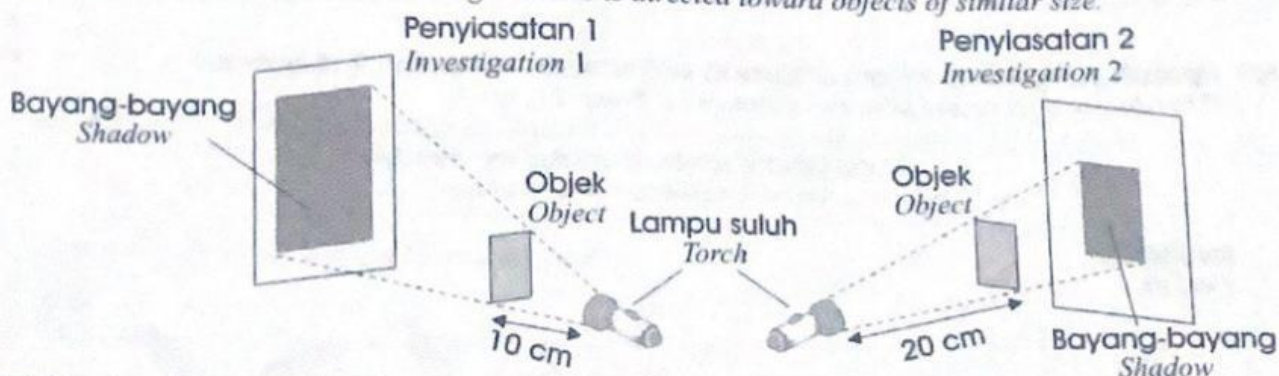
State the duration taken by the Earth to make one complete movement of X and Y

- (i) X: \_\_\_\_\_
- (ii) Y: \_\_\_\_\_

- 1 Rajah menunjukkan suatu penyiasatan yang dijalankan oleh kumpulan Sains Cepak di dalam kelas.  
The diagram shows an investigation conducted by the Science Cepak group in the classroom.



- (a) Lukiskan bayang-bayang tin pada skrin di atas.  
Draw the shadow of the can on the screen above.
- (b) Tuliskan pemerhatian kamu jika  
Write your observations if
- (i) tin itu digerakkan ke X :  
the can is moved to X : \_\_\_\_\_
- (ii) tin itu digerakkan ke Y :  
the can is moved to Y : \_\_\_\_\_
- 2 Penyiasatan 1 dan 2 menunjukkan sumber cahaya dituju ke arah objek yang sama saiz.  
Investigations 1 and 2 show that the light source is directed toward objects of similar size.



- (a) Berdasarkan penyiasatan di atas, nyatakan  
Based on the investigation above, state
- (i) pemboleh ubah dimalarkan :  
constant variable : \_\_\_\_\_
- (ii) pemboleh ubah yang dimanipulasikan :  
manipulated variable : \_\_\_\_\_
- (iii) pemboleh ubah yang bergerak balas :  
responding variable : \_\_\_\_\_
- (b) Tuliskan hipotesis bagi penyiasatan di atas.  
Write the hypothesis for the investigation above.

- 3 Perhatikan rajah di bawah. Teliti dialog mereka.  
**KBAT** Observe the diagram below. Examine their dialogue.



Mengapakah kolam itu kelihatan cetek daripada kedalaman sebenar? Berikan inferens.  
Why does the pool appears shallower than the actual depth? Give an inference.

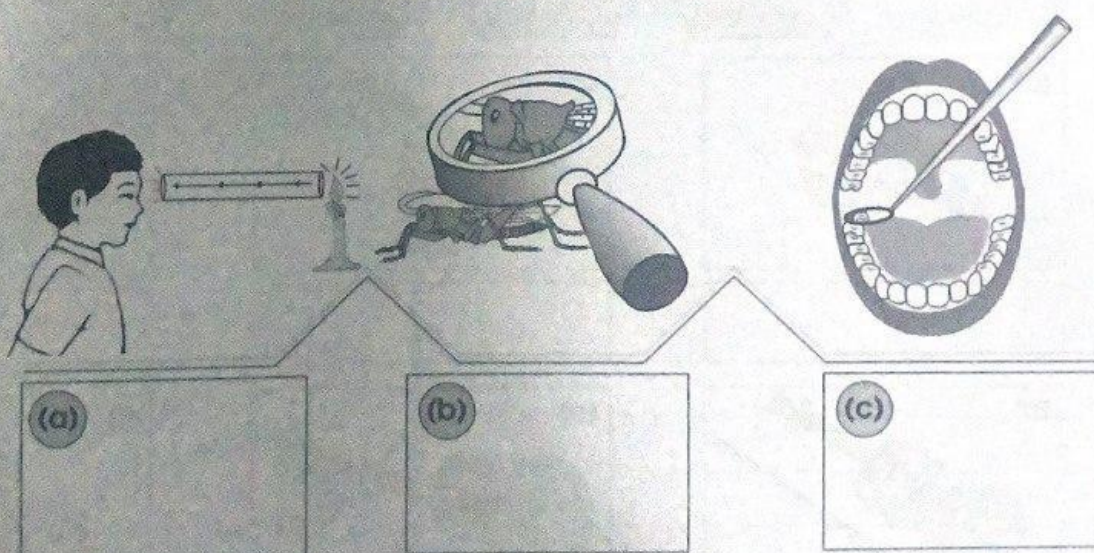
- 4 Arahan : Lengkapkan peta titi dengan mengisi sifat-sifat cahaya berdasarkan rajah yang ditunjukkan.  
Instruction : Complete the bridge map by filling in the properties of light based on the diagram shown.

**i - THINK**  
**Peta Pemikiran**

**PETA TITI**  
**BRIDGE MAP**

**Rajah**  
**Diagram**

**Sifat cahaya**  
**Property of**  
**light**



- 3** Dalam penyiasatan di bawah, termometer diletakkan di dalam bekas yang dibalut dengan kain kapas, plastik dan kepingan aluminium. Ketiga-tiga termometer diletakkan pada masa yang sama dan bacaan suhu direkodkan.  
*In the investigation below, the thermometers were placed in containers covered with cotton cloth, plastic and aluminium sheet. All of the three thermometers were placed at the same time and temperature readings were recorded.*



Selepas 20 minit, bacaan suhu pada termometer direkodkan.  
*After 20 minutes, the temperature reading on the thermometer was recorded.*

|   | Sebelum penyiasatan<br><i>Before investigation</i> | Selepas penyiasatan<br><i>After investigation</i> |
|---|----------------------------------------------------|---------------------------------------------------|
| P | 80°C                                               | 70°C                                              |
| Q | 80°C                                               | 52°C                                              |
| R | 80°C                                               | 45°C                                              |

- (a) Antara kain kapas, plastik dan kepingan aluminium, yang manakah konduktor haba?  
*Between cotton cloth, plastic and aluminium sheet, which is a heat conductor?*

- (b) Tuliskan satu pemerhatian yang boleh kamu buat.  
*Write down one observation that you can make.*

- (c) Berdasarkan pemerhatian kamu di (b), berikan inferens.  
*Based on your observation in (b), give an inference.*

- (d) Nyatakan pemboleh ubah yang  
*State the variable that is*

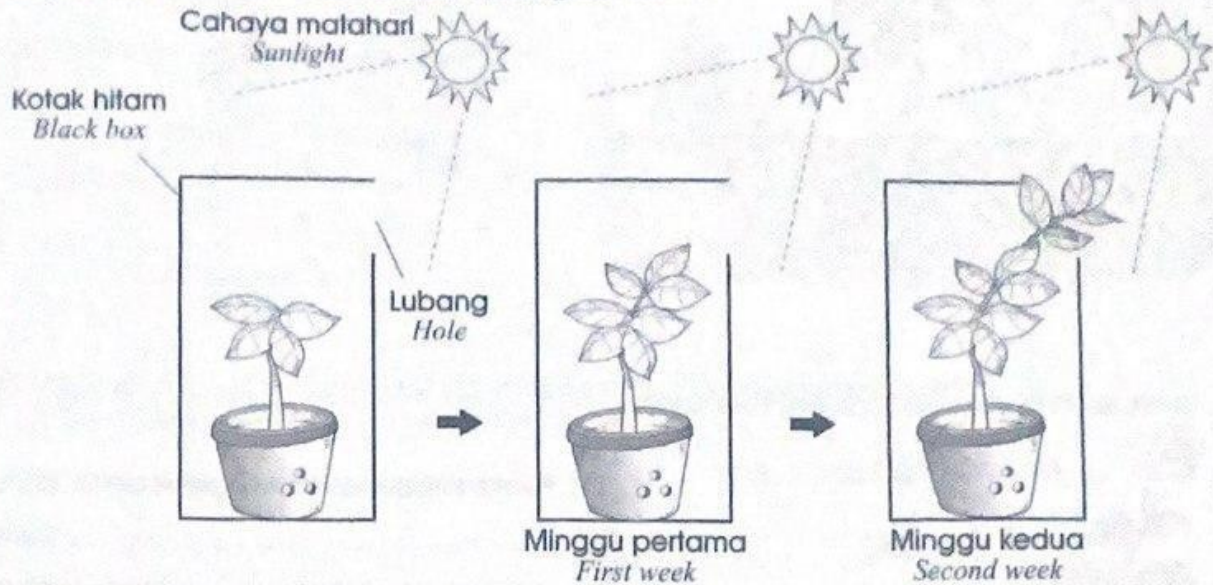
(i) dimanipulasikan :  
*manipulated*

(ii) bergerak balas :  
*responding*

Ketebalan kain kapas memberi kesan ke atas bacaan suhu pada termometer.  
*The thickness of the cotton cloth affects the temperature reading on the thermometer*

- (e) Tuliskan hipotesis kamu berdasarkan pernyataan di atas.  
*Write your hypothesis based on the statement above.*

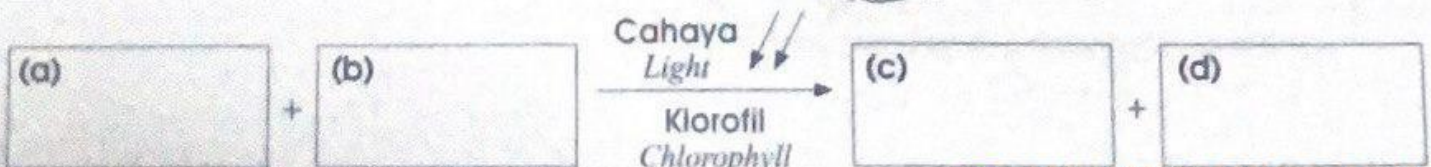
- 1 Suatu eksperimen dijalankan seperti yang ditunjukkan dalam rajah di bawah.  
An experiment is conducted as shown in the diagram below.



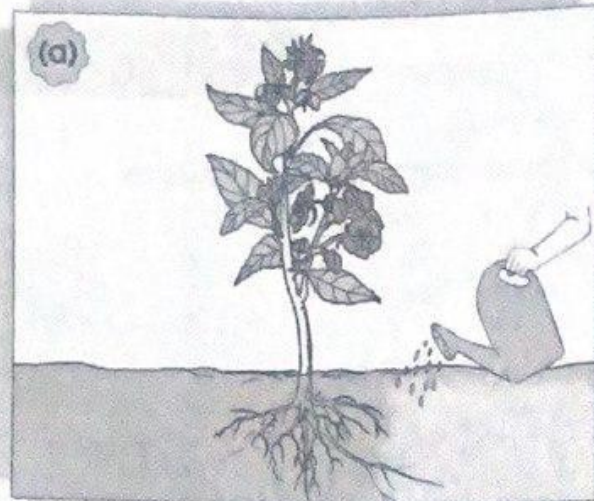
- (a) Nyatakan satu pemerhatian bagi eksperimen ini.  
State **one** observation for this experiment.
- (b) Berikan satu inferens bagi pemerhatian kamu di (a).  
Give **one** inference for your observation in (a).
- (c) Apakah yang akan terjadi jika tiada lubang pada kotak?  
What would happen if there was no hole in the box?
- (d) Tuliskan inferens berdasarkan jawapan kamu di (c).  
Write an inference based on your answer in (c).

- 2 Daun hijau menjalankan proses fotosintesis. Lengkapkan.  
Green leaves undergo the process of photosynthesis. Complete it.

Proses fotosintesis  
Process of photosynthesis

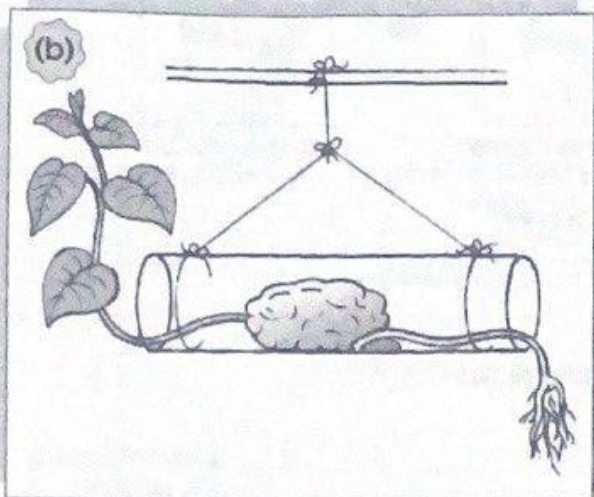


- 3 Tuliskan gerak balas tumbuhan terhadap rangsangan.  
*Write down the plant's response towards stimulus.*



Akar tumbuhan ini bergerak balas terhadap \_\_\_\_\_

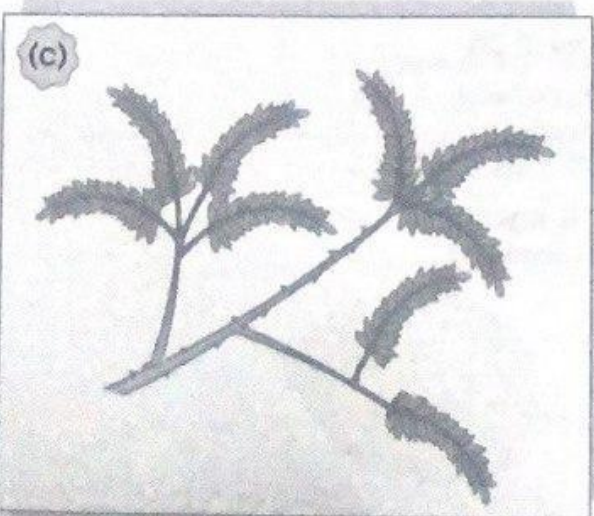
*The roots of this plant respond towards \_\_\_\_\_*



Pucuk tumbuhan ini bergerak balas terhadap \_\_\_\_\_, manakala

akar pula bergerak balas terhadap \_\_\_\_\_

*The shoot of this plant responds towards \_\_\_\_\_ while the root responds towards \_\_\_\_\_*



Daun pokok semalu menguncup apabila disentuh kerana bergerak balas terhadap \_\_\_\_\_

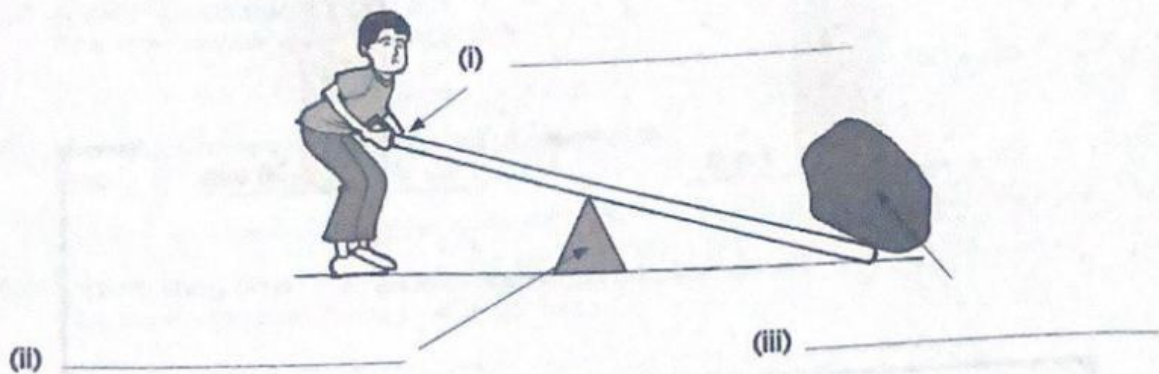
*The leaves of Mimosa pudica fold when touched because of the response towards \_\_\_\_\_*

- 1 (a) Rajah menunjukkan sistem tuas. Kenal pasti bahagian berikut dan labelkan.  
The diagram shows the lever system. Identify the following parts and label.

Daya  
Force

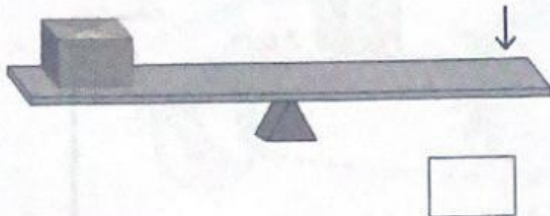
Beban  
Load

Fulkrum  
Fulcrum

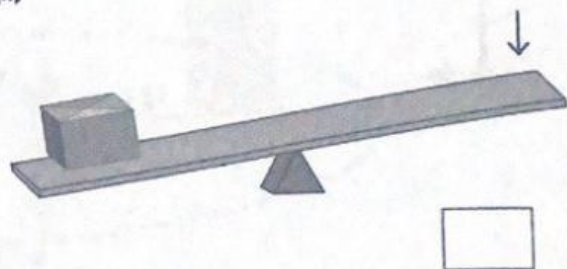


- (b) Tuas yang manakah seimbang? Tandakan ☒ jawapan kamu.  
Which lever is balanced? Tick ☒ your answers.

(i)


☐

(ii)


☐

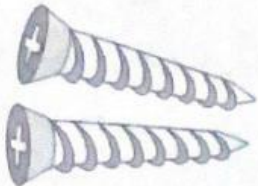
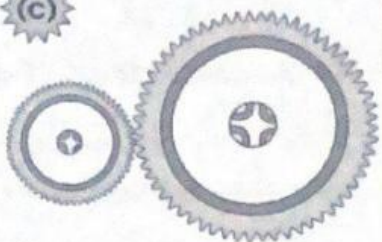
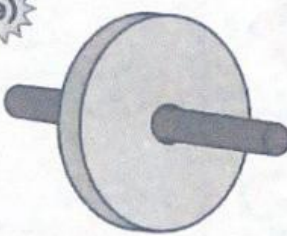
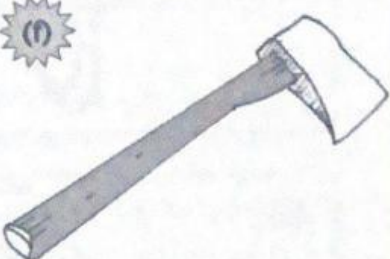
(iii)


☐

(iv)


☐

2 Namakan mesin ringkas di bawah.  
Name the simple machines below.

| Roda dan gandar<br>Wheel and axle                                                            | Baji<br>Wedge                                                                                | Skrus<br>Screw                                                                                 | Gear<br>Gear                                                                                  | Takal<br>Pulley                                                                              | Satah condong<br>Inclined plane                                                                |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <p>(a)</p>  | <p>(b)</p>  | <p>(c)</p>  | <p>(d)</p>  | <p>(e)</p>  | <p>(f)</p>  |
|                                                                                              |                                                                                              |                                                                                                |                                                                                               |                                                                                              |                                                                                                |