

SECTION B

There are two questions for you to choose. Answer **ONLY ONE** question.

1. (a) Figure 1 shows electric circuit built by Allie.

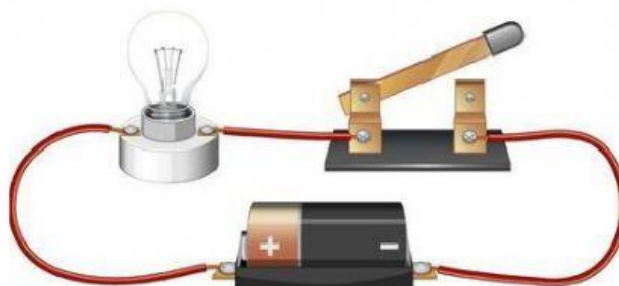


Figure 1

- (i) Allie is trying to find out if his electric circuit is complete or incomplete. What should he do?

(1 mark)

- (ii) What is the function of component X?

(1 mark)

- (b) Allie added the number of dry cells in the electric circuit, then he observed and compare the brightness of the bulbs in the electric circuit as shown in Table 1.

Number of dry cells	Brightness of bulb
1	Dim
2	Bright
3	Brighter

Table 1

- (i) What was changed in this investigation.

(1 mark)

(ii) What was not changed in this investigation?

(1 mark)

(iii) What can be concluded in this investigation?

(1 mark)

(c) Figure 2 shows peoples moving a big rock using a metal rod.

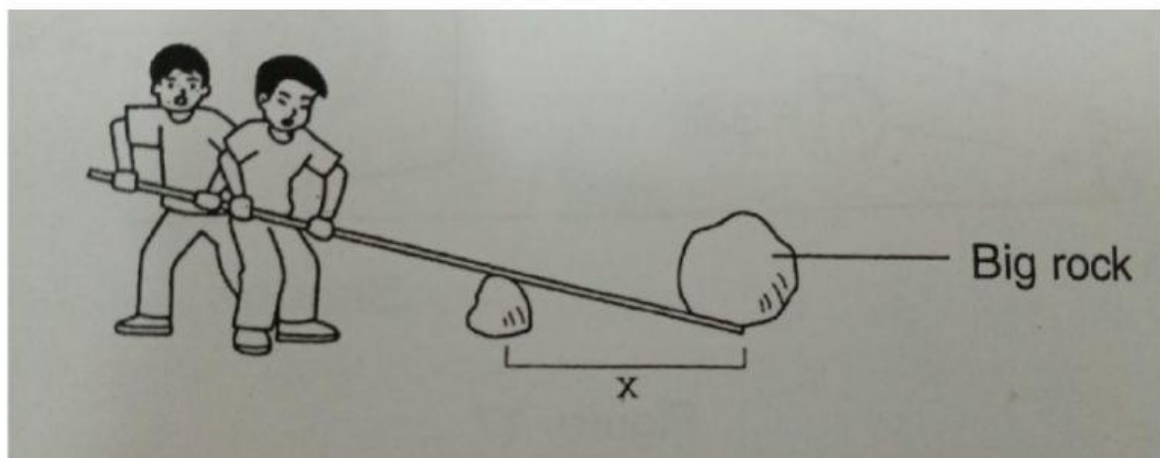


Figure 2

Table 2 shows the distance X and the number of people needed to move the big rock.

Distance X (cm)	20	40	60	80
Number of people	1	2	3	4

Table 2

(i) What is the simple machine used in Figure 2?

(1 mark)

(ii) State the purpose of this investigation?

(1 mark)

(iii) What was changed in this investigation?

(1 mark)

(iv) What was not changed in this investigation?

(1 mark)

(v) What was the affects of this investigation?

(1 mark)

2. Rahimah placed four seedlings with the same length into four similar jars as shown on Figure 3. She poured in water to jar A and Jar B only but not in Jar C and Jar D. She closed all the jars using lids with holes. She kept Jar B and Jar D in opaque boxes let Jar A and Jar C exposed to sunlight. She observed the jars after 2 weeks.

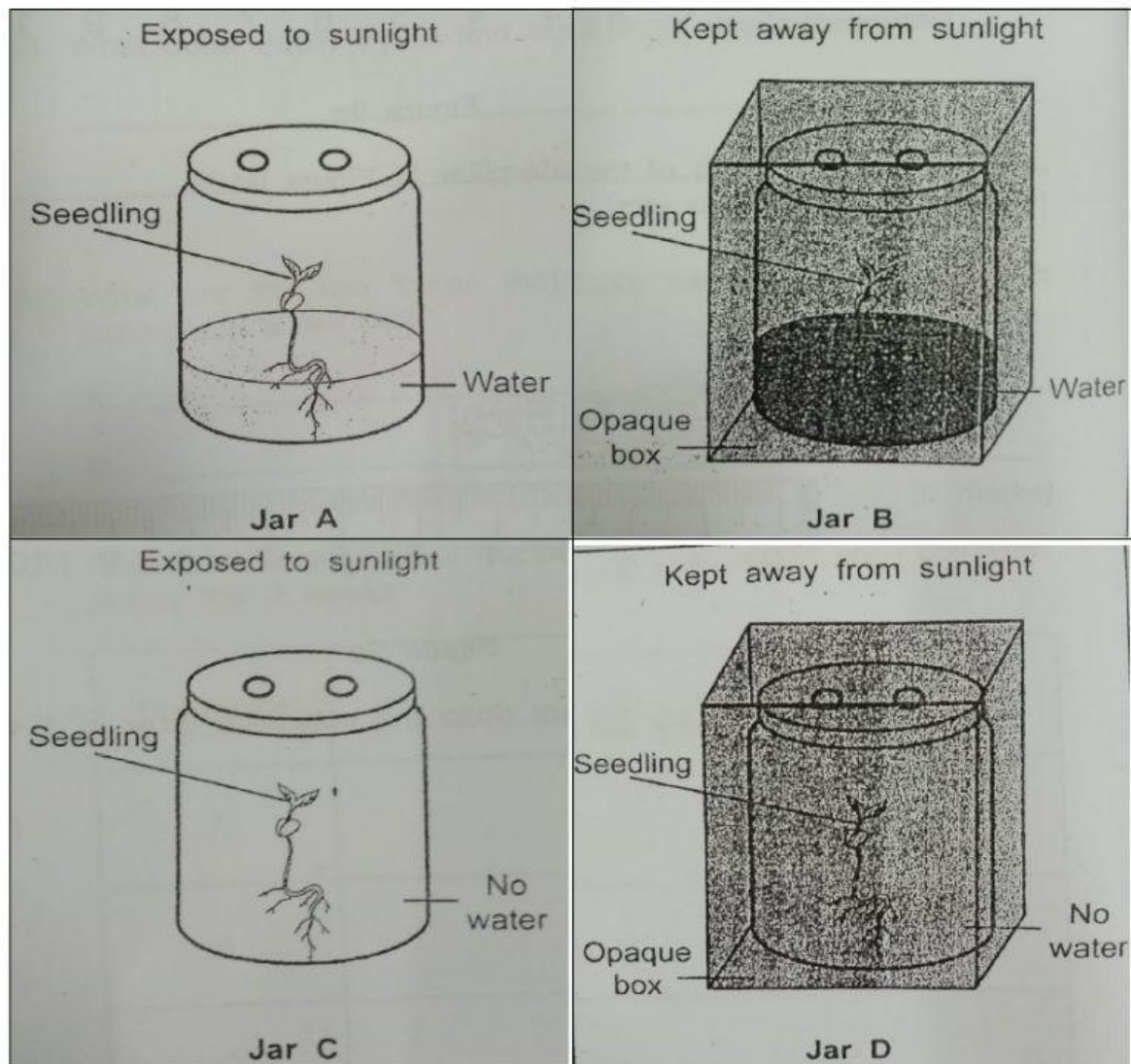


Figure 2a

(a) (i) How did Rahimah give fresh air into all the jars for the seedlings?

(1 mark)

(ii) What are the two things Rahimah is trying to find out through this experiment?

A. _____

B. _____

(2 marks)

(iii) Predict the changes that Rahimah would observe in each jar after 2 weeks.

Jar	Observations
A	
B	
C	
D	

(4 mark)

(b) Rahimah measured the length of the seedlings before placing it into the jars. As shown in Figure 2. After 2 weeks, she measured again the length of the seedling that is still alive as in Figure

At the start of the experiment

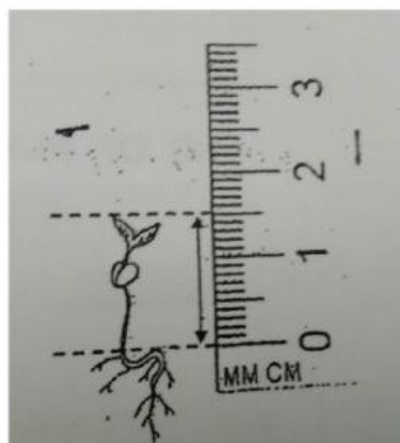


Figure 2b

- (i) The length of the seedling at the start of the experiment is _____ centimetres (cm).

(1 mark)

After 2 weeks

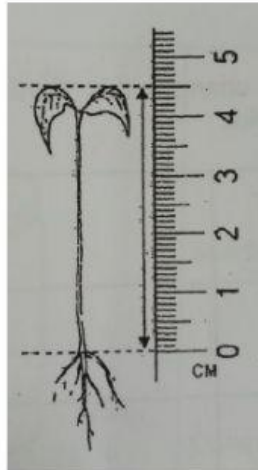


Figure 2c

- (ii) The length of the seedling after 2 weeks is _____ centimetres (cm).

(1 mark)

- (iii) By how many per cent does the seedling grow in 2 weeks?

_____ %

(1 mark)

TOTAL MARKS	
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END OF PAPER