4. Ayu used the same type and size of bulbs and dry cells to set up three electric circuits namely Circuit A, Circuit B and Circuit C in Figure 1.

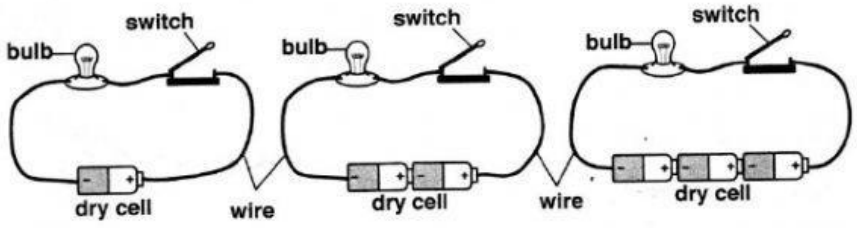


Figure 1

(a) Compare the brightness of the bulbs in all three circuits when the switches are closed.

Which circuit (A, B or C) has the brightest bulb?

Circuit _____

[1 mark]

(b) Explain why you choose the circuit with the brightest bulb as your answer in 4(a).

_____

[1 mark]

(c) What will happen to the brightness of the bulbs when another bulb is added to Circuit B?

_____

[1 mark]

(d) The set-up of this experiment in Figure 1 is a fair test. Describe two things that Ayu did to ensure that the experiment is fair.

(i) _____

(ii) _____

[2 marks]

LIVEWORKSHEETS