

Name: \_\_\_\_\_ Class: \_\_\_\_\_

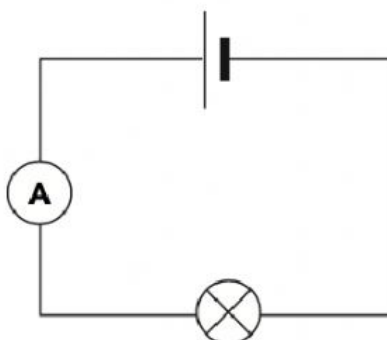
## TOPICAL ASSESSMENT (2020/2021)

YEAR 9

### TOPIC 10: **ELECTRICITY**

Answer ALL questions below.

1. Aiko wants to measure different quantities in electrical circuits.
  - (a) She connects this electrical circuit.



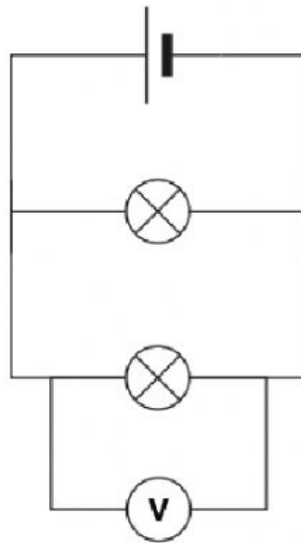
Complete the sentences.

The circuit diagram shows a ..... circuit.

The component shown by (A) is .....

The component measures ..... [2]

- (b) She connects this electrical circuit.



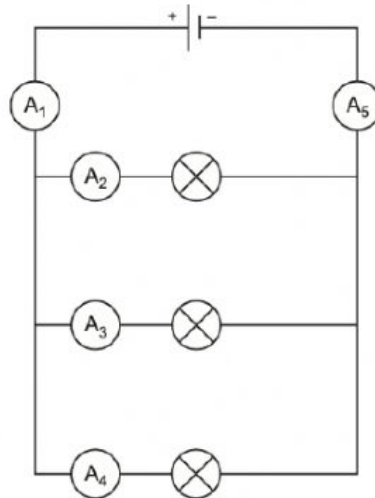
Complete the sentences.

The circuit diagram shows a ..... circuit.

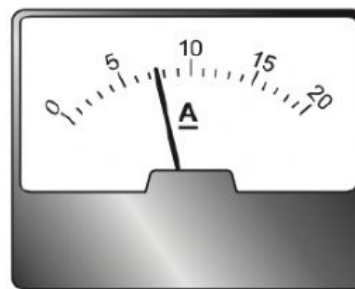
The component shown by **V** is .....

The component measures the ..... across the lamp. [2]

2. Mia connects an electrical circuit.



- (a) Here is a picture of component **A1**.



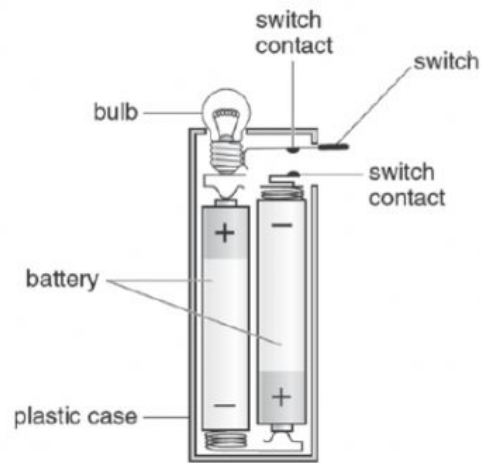
What is the reading on component **A1**?

.....[1]

- (b) Predict the reading on component **A5**.

.....[1]

3. (a) The drawing below shows the parts of a torch.

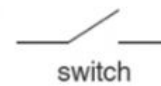
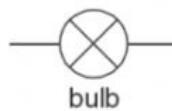


(i) Paul closed the switch.

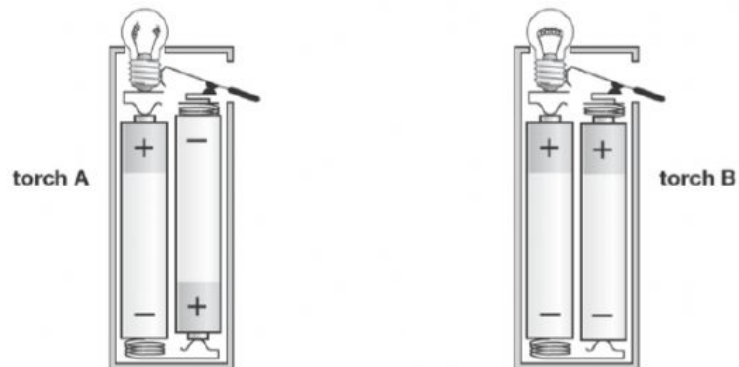
Why did this turn on the torch?

.....  
 .....[1]

(ii) The diagrams below show symbols for a battery, a bulb and a switch. Connect the symbols to make a series circuit for the torch. [1]



- (b) The drawings below show two other torches. In both torches, the bulbs will **not** light even when Paul closes the switches.



Look carefully at the drawings.

- (i) Why is the circuit of torch A not complete?

.....[1]

- (ii) What could you do to torch B to get the bulb to light?

.....[1]