

Electric Current

1

Look at the simple circuit alongside then fill in the gaps below.



The brightness of the bulb depends on how much electric

flows through the

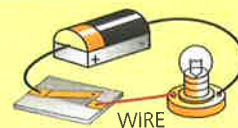
. The greater the

, the

the bulb.

2

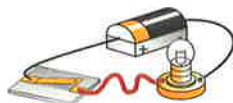
Susan wants to investigate how changing the length of a certain wire in a circuit affects the brightness of a bulb. She sets up this simple circuit.

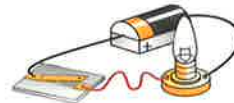


a) What must be kept the same if her investigation is to be a FAIR TEST?

b) She decides to double the length of wire. Explain why each of the following circuits is NOT a fair test for her investigation.













c) Susan carries out her investigation but unfortunately her results have become mixed up. Draw arrows to match up her results. One has been done for you.

Length of wire	60cm	100cm	40cm	120cm	20cm	80cm
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Brightness of bulb	Bright	Very dim	Very, very bright	Very bright	Dim	Very, very dim
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d) How does increasing the length of wire in the circuit affect the brightness of the bulb?