Series and Parallel Circuit Questions for GCSE Physics
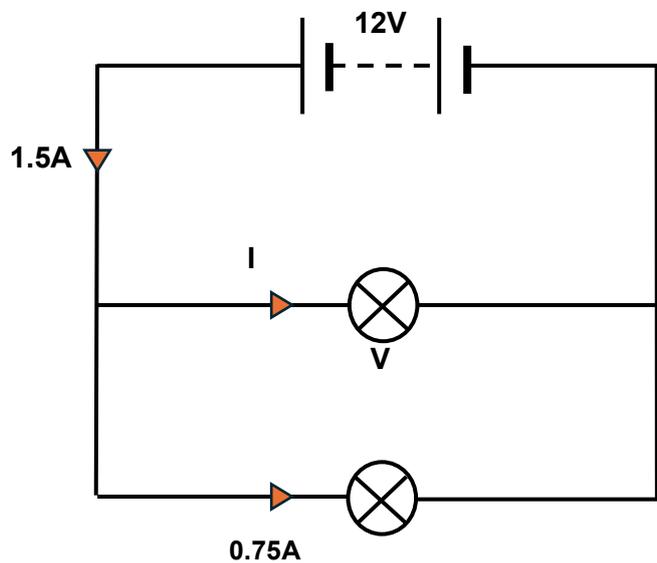
VideoPlato Academy

1. What are the values of *V* and *I* in this diagram?
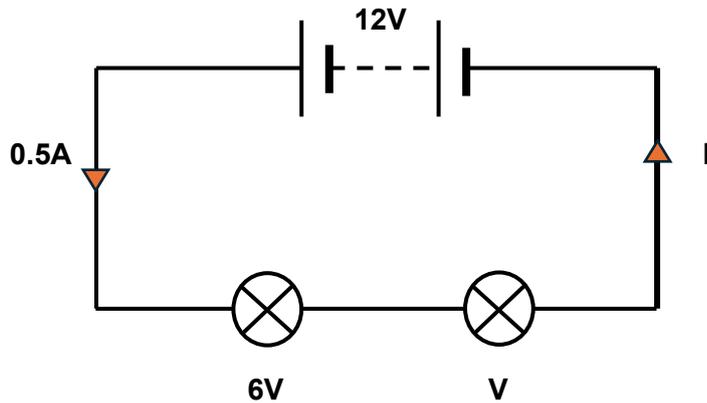
I = ………………

V = ………………

2. What are the values of *V* and *I* in this diagram?

I = ………………

V = ………………

3. This diagram shows 2 different resistors in parallel. What are the values of current *I*, and voltage *V*?

V

I

1.5A

V

2.5A   **24V**
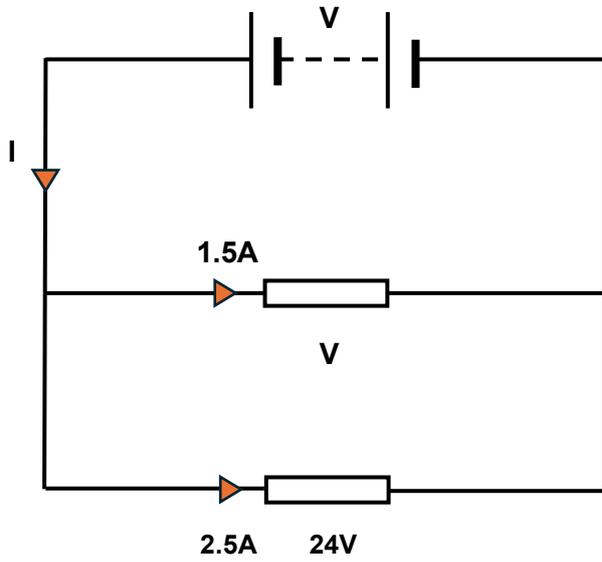
I = ………………

V = ………………

4. This diagram shows 2 different resistors in series. What are the values of current *I*, and voltage *V*?

V

I

1.5A

3V   **2V**
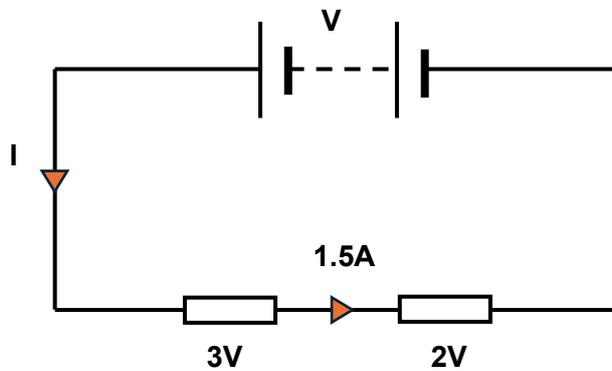
I = ………………

V = ………………

5. These resistors may have different values. What is the value of *V*?

8V

2V   2V   V
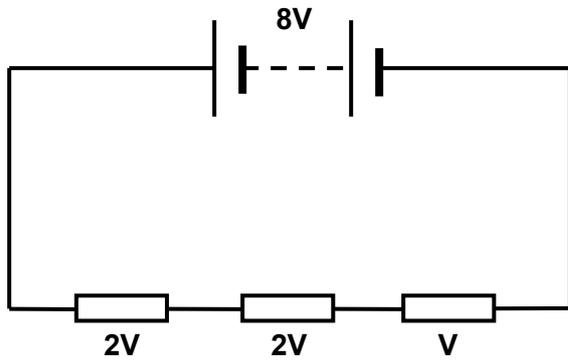
V = ………………

6. These resistors may have different values. What is the value of *I*?

V

2A

0.5A

0.5A

I
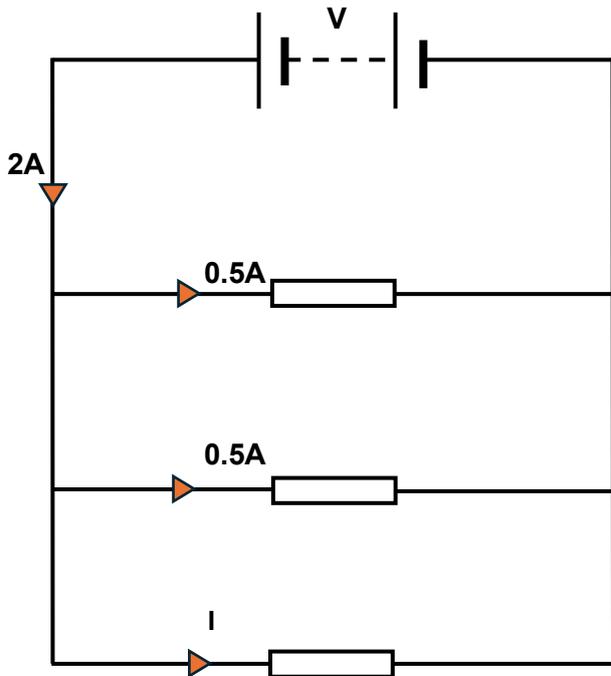
I = ………………

7. The two lamps in this diagram are identical. What are the values of *V* and *I*?

6V

3A

2V

I

V
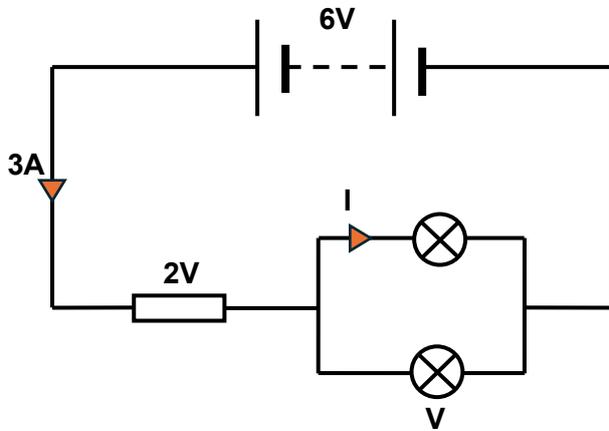
I = ...

V = ...

8. All the lamps are identical in this circuit. What are the values of *I* and *V*?

12V

2A

8V

I

V

1.2A

I = ...

V = ...