

CIRCUIT PATH: PARTS & COMPARISONS

UNIT: CIRCUITS

OBJECTIVE:

Students will identify fractions as parts of a whole and compare fractions using words such as greater than, less than, and equal to or equivalent.

MATERIALS:

- ✓ Pencil
- ✓ Worksheet

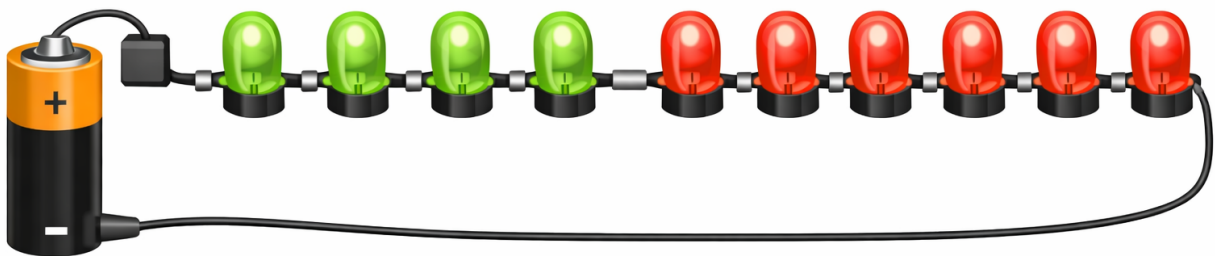
STUDENT DIRECTIONS:

Answer the following word problems.

Word Problem 1: Series Circuit

A series circuit has only one path for electricity.

All the LEDs are connected along that single path.



1. Identify the Whole (count the total number of LEDs)

The whole is:

2. Write the Fraction

If 4 LEDs are green, write the fraction of green LEDs in the series circuit.

Fraction:

3. Compare the Fraction to the Whole

Green LEDs

Red LEDs

3a. Do the green LEDs show a **greater** than, **less** than, or **equal** part of the whole?

Answer: The green LEDs show a _____ of the whole.

3b. Do the red LEDs show a **greater** than, **less** than, or **equal** part of the whole?

Answer: The red LEDs show a _____ of the whole.

3c. Which color of LEDs takes the greater part of the whole? Green or Red?

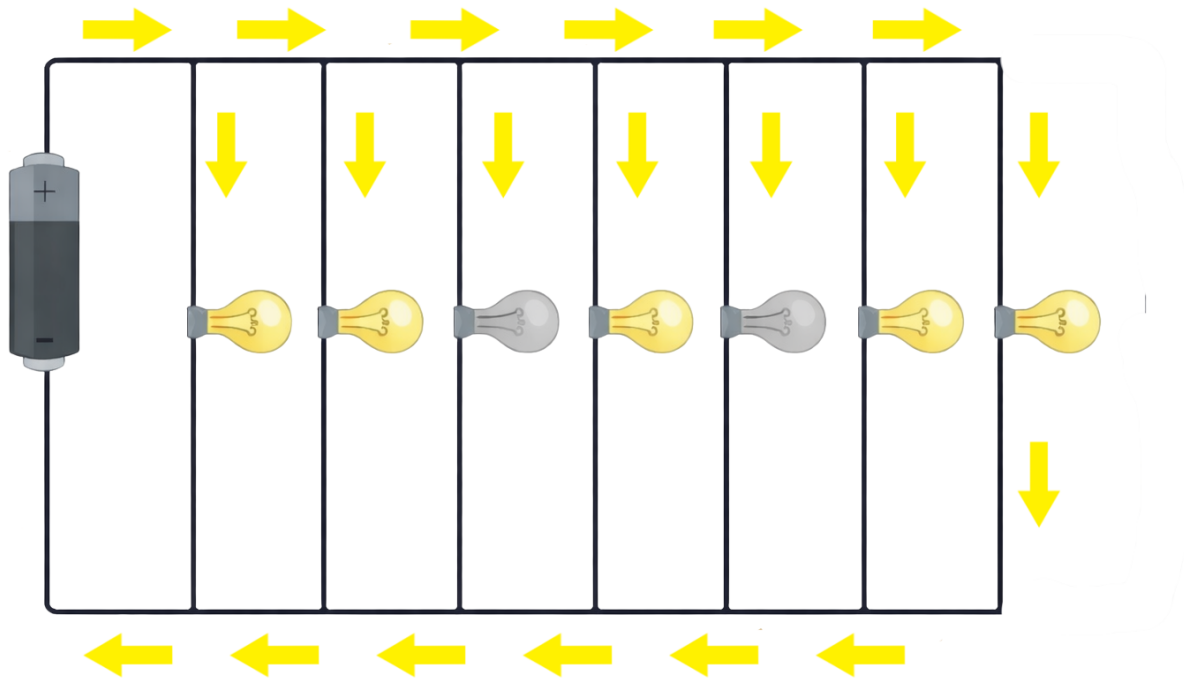
Answer: The _____ LEDs take the greater part of the whole.

Word Problem 2: Parallel Circuit

Parallel lines are lines that never touch.

A parallel circuit uses 7 LEDs in total.

Some LEDs are working, and some are not.



1. Identify the Whole

The whole is:

2. Write the Fraction and Compare

Write the fraction for each path and circle the fraction that uses the greater part of the LEDs.

Working LEDs

Not working LEDs