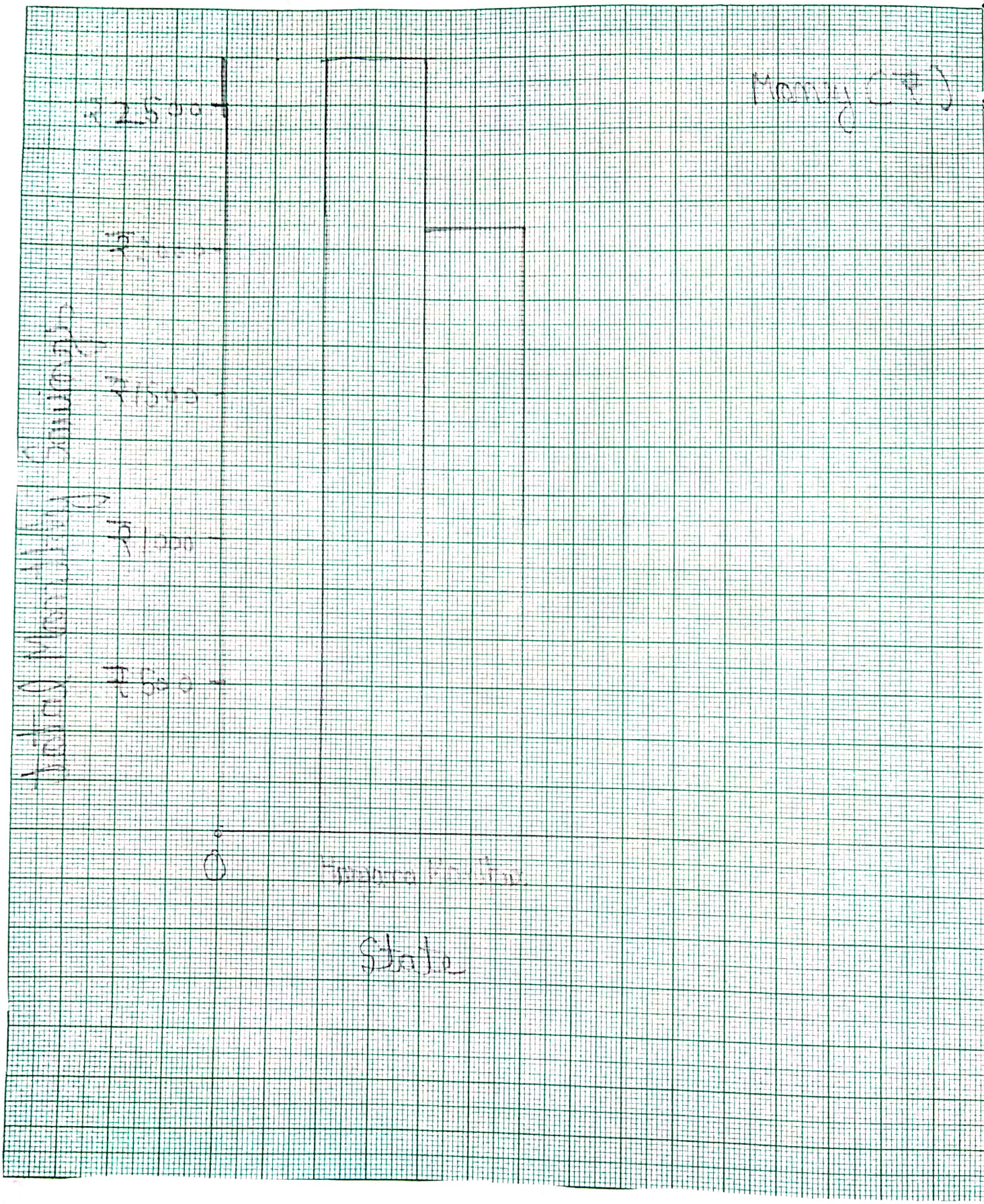

Maths

Objective

To understand and compare the solar energy production and potential savings in two Indian States - Haryana and Manipur, based on a given scenario.

If a solar panel in Haryana produces 1.5 KWH per day and a panel in Manipur produces 1.2 KWH per day due to lesser sunlight Calculate the following.

Q 1. Total energy produced in a month by 10 panels in each state.

Q 2. Compare the monthly savings in each state. if 1KWH = ₹ 6

Q 3. Represent data in a double bar graph.

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Total Energy production (MWh)

Energy (MWh)

0

Hours Monday

Date

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Calculations →

1. Total Energy produced.

Lets assume 1 month = 30 days

- Haryana

1 panel = 1.5 KWh / day

10 panel = 1.5 KWh / day × 10 = 15 KWh / day

Monthly energy = 15 × 30 = 450 KWh

- Manipur

1 panel = 1.2 KWh / day

10 panel = 1.2 K × 10 = 12 KWh / day

Monthly energy = 12 × 30 = 360 KWh

2. Monthly Savings

- Haryana = 450 KWh × ₹6 = ₹2700 Ans
- Manipur = 360 KWh × ₹6 = ₹2160 Ans

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