COMPUTE WATER OR ELECTRIC METER CONSUMPTION FOR A PARTICULAR PERIOD OF TIME

To calculate water or electric meter usage for a specific time period, just **subtract the previous reading from the current reading.**

Problem 1: Mr. Pordan is computing his monthly electrical consumption. Based on his electric bill, last month he was able to consume 00124 kWh. When he checked his digital electric meter, the reading was 00197 kWh. How many kilowatt-hours did Mr. Pordan consume this month?

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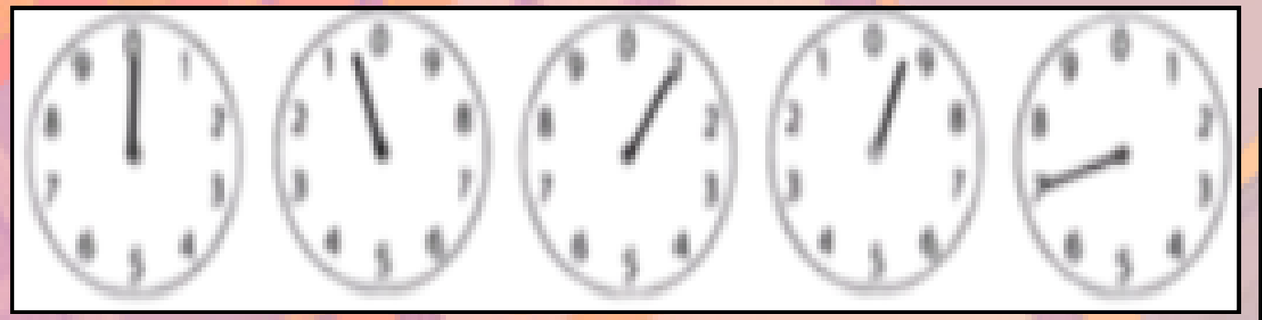
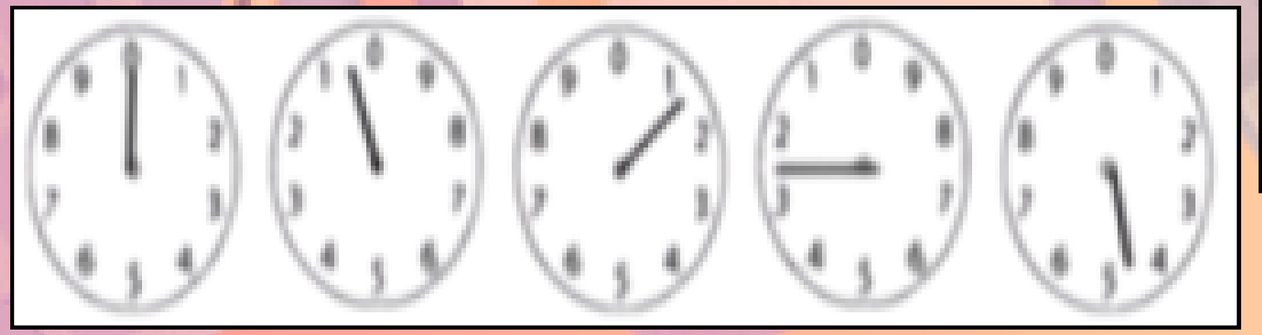
Present Reading



Previous Reading



The electric meter reading shows:
Present Reading: 00197kWh
Previous Reading: 00124kWh

Therefore:
Present Reading - Previous Reading
00197 kWh - 00124 kWh = **73 kWh**

The amount of electricity used by an appliance is equal to the product of the electric power of the appliance and the time.

$$\text{Electric consumption} = \frac{\text{Number of watts x Time}}{1000}$$

Problem 2: How much electricity will be consumed by a 60-watt light bulb that was turned on for 5 hours?

$$\textbf{Electric consumption} = \frac{60 \text{ watts x } 5 \text{ hours}}{1000} = \frac{300}{1000} = \textbf{0.3 kWh}$$

Problem 3: The Gianan Family made a record of their 5-month water consumption. During the same period during the COVID-19 Pandemic, the initial reading is 973 m^3 and the meter read as:

February: 1020 March: 1400 April: 986

a. In what month did they use the most water?
b. How many cubic meters of water did they use for 3 months?
c. Solve for the average monthly consumption in cubic meters.

To find the month in which they consumed the most water, find the amount of water they consumed every month by subtracting the initial reading from the first month's reading, then the previous month's reading from the current reading, and so on.

Having an initial reading, the water consumption for each month is:

February: 1020 m^3 - 973 m^3 = 47 m^3 water consumption for February

March: 1400 m^3 - 1020 m^3 = 380 m^3 water consumption for March

April: 1500 m^3 - 1400 m^3 = 100 m^3 water consumption for April

To get the total amount of water consumed:

$$47\ m^3 + 380\ m^3 + 100\ m^3 = 527\ m^3$$

To get the average monthly consumption:

$$\text{Average monthly consumption} = \frac{527m^3}{3} = 175.67m^3$$