

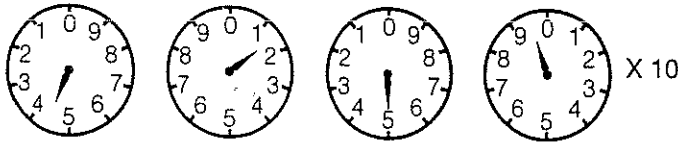
Goal • Practise reading meters.

What to Do

Read each of the meters below, then answer the questions in the spaces provided.

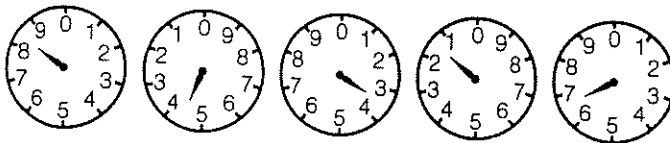
Questions

1. (a)



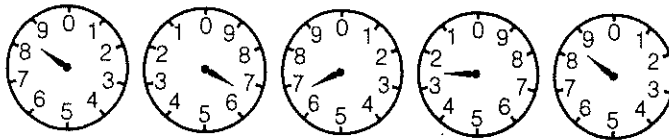
Reading: _____

(b)



Reading: _____

2. Two months later, the meter in question 1(b) shows the following reading.



(a) Reading: _____

(b) How much electrical energy was consumed during the two months?

Calculations:

(c) If electricity costs nine cents per kW•h, calculate the electricity bill for this period.

Calculations:

Goal • Practise calculating the cost of energy.

What to Do

Use the knowledge you gained in Chapters 10 and 11 to answer the questions below.

Questions

1. A meter reader determines that a business has used $3550 \text{ kW}\cdot\text{h}$ of energy in two months. If electricity costs 10 cents per $\text{kW}\cdot\text{h}$, calculate the bill.

Calculations:

2. An electric heater draws 1100 W of power. Electricity costs eight cents per $\text{kW}\cdot\text{h}$. How much does it cost to operate the heater 3 h a day for 30 days?

Calculations:

3. A 750 W toaster and a 1200 W electric frying pan are plugged into the same 100 V outlet. How much will it cost to operate the two appliances at eight cents per $\text{kW}\cdot\text{h}$?

Calculations:

4. A toaster is used an average of 5 h a month. The toaster draws 8 A of current from a 110 V outlet. If electricity costs eight cents per $\text{kW}\cdot\text{h}$, how much will it cost to operate the toaster for one year?

Calculations: