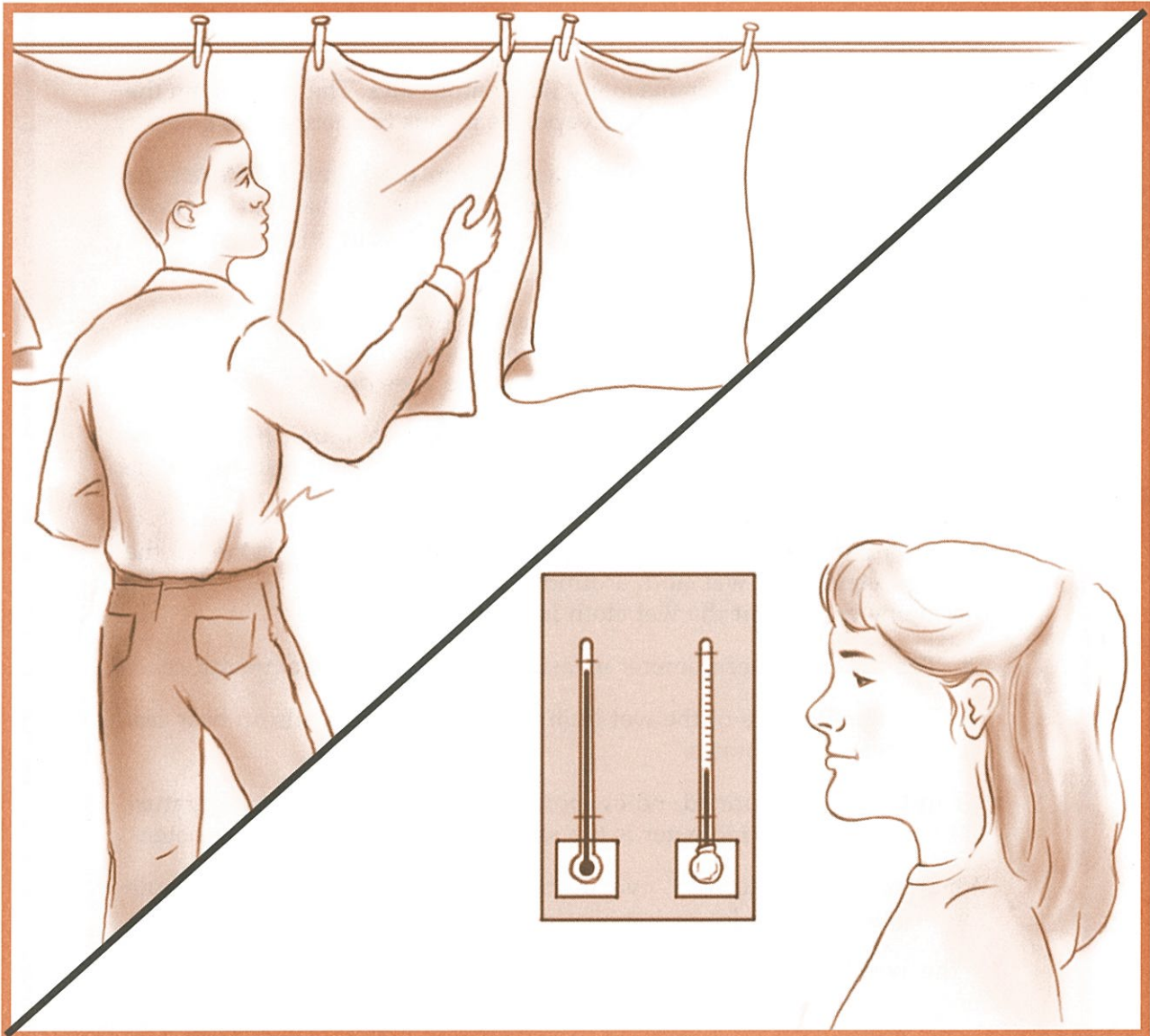


How do we measure relative humidity?



KEY TERM

hygrometer: instrument that measures relative humidity

FIND THE PARTS

Figure A shows a wet-and-dry-bulb thermometer. Find the parts listed below. Then write the letter of each part on the correct line.

1. _____ wet-bulb thermometer
_____ dry-bulb thermometer
_____ water
_____ wet cloth
2. What does a wet-and-dry-bulb thermometer measure?

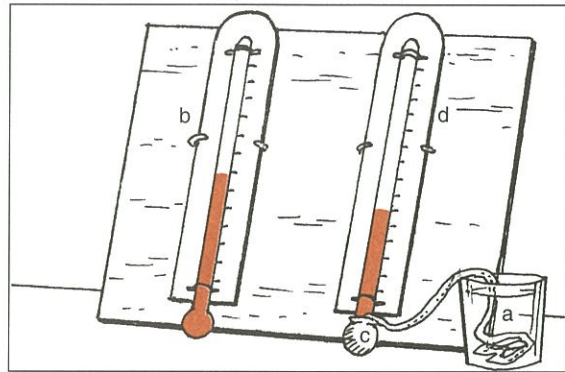


Figure A

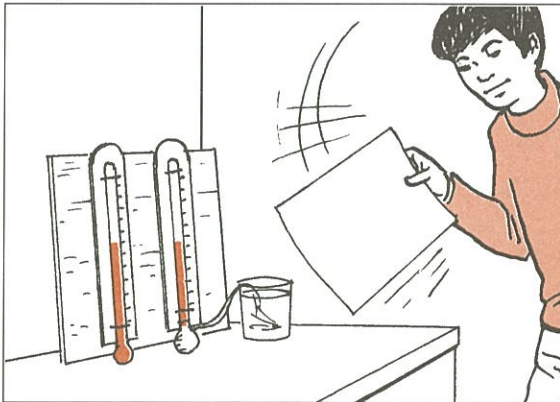


Figure B

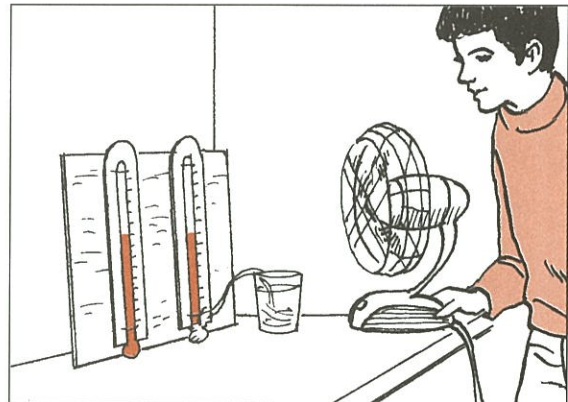


Figure C

You should fan a wet-and-dry-bulb thermometer before you read the temperatures. This keeps air moving around the wet bulb so that the water evaporates.

You can even spin the thermometers. The hygrometer in Figure D is also called a sling psychrometer [sy-KRAHM-uh-tur].

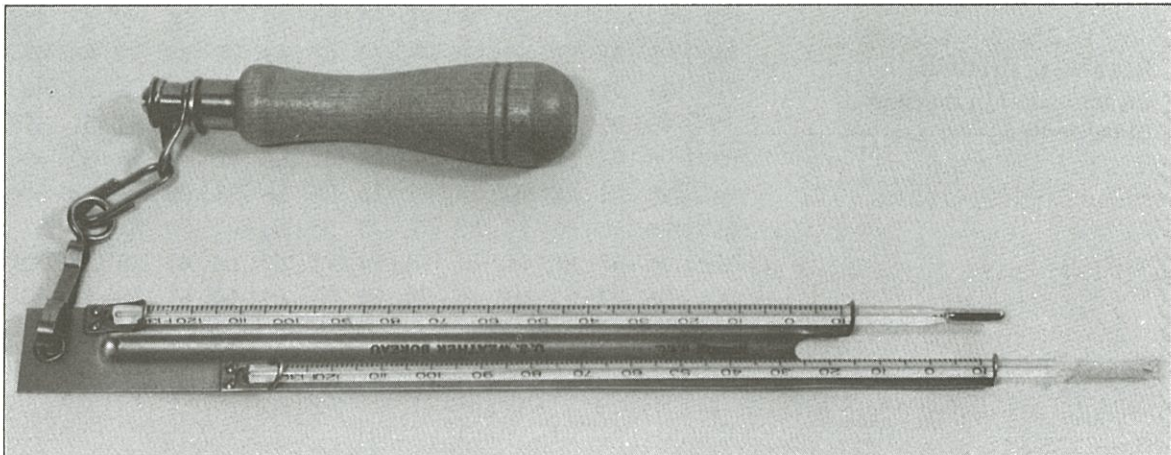


Figure D

FINDING RELATIVE HUMIDITY

Fill in the missing numbers in the boxes below. Use the chart on the facing page.

	Dry-bulb Temperature °F	Wet-bulb Temperature °F	Temperature Difference	Percentage Relative Humidity
1.	78	73		
2.	54	39		
3.	74	66		
4.	40	29		
5.	90	89		
6.	76	71		
7.	90	75		
8.	62	52		
9.	82	71		
10.	48	37		
11.	80	77		
12.	46	35		

MATCHING

Match each term in Column A with its description in Column B. Write the correct letter in the space provided.

	Column A	Column B
_____	1. water vapor	a) the amount of water vapor in the air compared to the amount it can hold at at a given temperature
_____	2. relative humidity	b) can hold little water vapor
_____	3. warm air	c) measures relative humidity
_____	4. cold air	d) can hold a lot of water vapor
_____	5. hygrometer	e) water in gas form