

Chapter 8

Use with Section 2

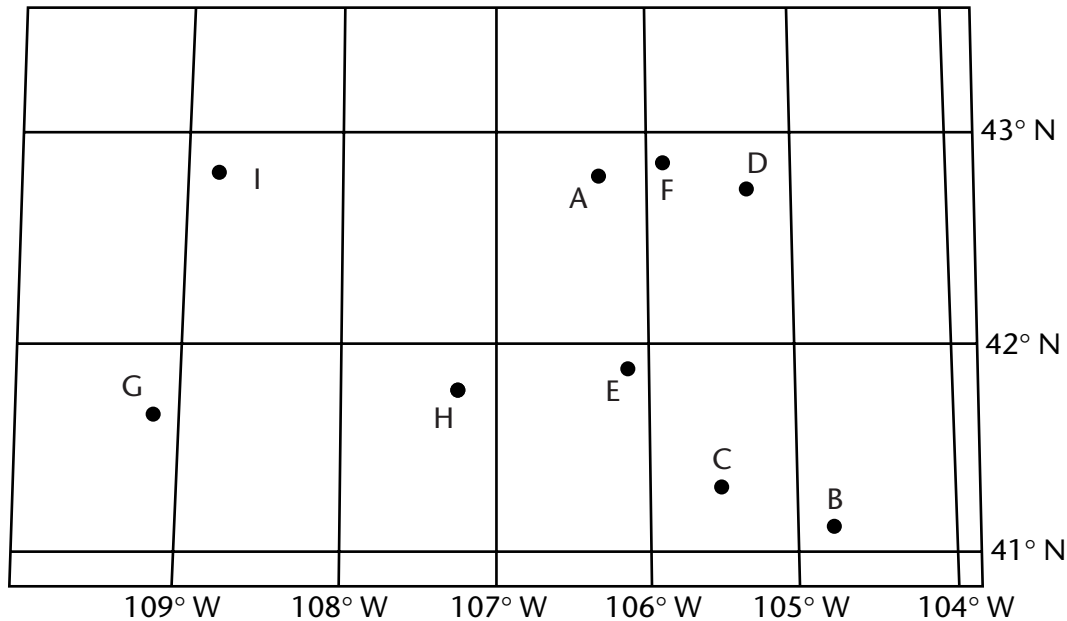
ENRICHMENT

● Viewpoints

Degrees and Minutes

Each degree of latitude or longitude may be divided into **minutes**. There are 60 minutes in a degree. A minute may be written with the symbol '. For example, a location identified as $30^{\circ} 30'E$ is thirty degrees and thirty minutes east of the prime meridian.

Use the map of part of Wyoming to complete the items below.



1. Place the letter of each city next to its location on the map.

City	Location	City	Location
A. Casper	$42^{\circ} 52'N; 106^{\circ} 20'W$	F. Glenrock	$42^{\circ} 53'N; 105^{\circ} 55'W$
B. Cheyenne	$41^{\circ} 9'N; 104^{\circ} 49'W$	G. Rock Springs	$41^{\circ} 40'N; 109^{\circ} 10'W$
C. Laramie	$41^{\circ} 20'N; 105^{\circ} 30'W$	H. Rawlins	$41^{\circ} 50'N; 107^{\circ} 20'W$
D. Douglas	$42^{\circ} 45'N; 105^{\circ} 20'W$	I. Lander	$42^{\circ} 50'N; 108^{\circ} 49'W$
E. Medicine Bow	$41^{\circ} 56'N; 106^{\circ} 11'W$		

2. Which cities would have overlapped if the locations had been rounded to the nearest degree only? _____

3. The grid of imaginary lines can also be broken down more precisely by using seconds in addition to degrees and minutes. Sixty seconds make up 1 minute. Under what conditions would seconds be needed? _____