## **Map Scale**

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Maps are useful for communicating information about places because they are miniature models of the great big world. You might have seen maps that show a zoo, a city, or a country. Maps can even show the whole world on one sheet of paper. Maps do this by shrinking the size of things in the real world. A map scale tells you how to translate between the map and the real world.

Graphic scales, verbal scales, and representative fractions can all be used to give a map's scale. For example, let's look at the graphic scale on page 9 of the atlas.

	,	meters does the entire epresent on this map?				
		ntimeters long is the entire f you measure with a				
	As a verbal scale	, you could say				
		1 centimeter equals (A	kilometers.			
	mpare these distan Let's see how it wo		cale of the map and express it as a re	epresentative		
Ĺ			ters, and you get 20,000,000 cm! and you calculate the representative f 1,429	raction:		
Most of the maps in the atlas are created at this scale so that the state of California can fit onto one page.  These are small scale maps.						
Zoom in! Large scale maps show less area but more detail. Check out pages 44 and 45 of the atlas.						
Which is larger scale, the map on page 44 or the maps on page 45? How do you know?						
Which one of the maps on page 45 is the largest scale? How do you know?						
of a large	give an example e scale map you tside of school?	,				

## Map Scale (cont.)



<b>Zoom out!</b> Sometimes we want a complete picture to see how things fit together. Small scale maps show larger amounts of area but can leave out many details.				
Check out pages 12 and 13 of the atlas.  Which map shows a larger amount of the Earth's surface?				
How is this helpful in understanding the topic of that page?				
Check out pages 20 and 21 of the atlas.  Which map is a smaller scale?  How is the smaller scale map helpful in understanding the topic of that page?				
Check out pages 24 and 25 of the atlas.  How many different scales are used on the maps on these two pages?  Which map is the smallest scale?				
Let's practice. Go to page 17 of the atlas, and measure these distances using the graphic scale.				
How many miles between San Francisco to Santa Cruz?				
How many kilometers between San Diego and Palm Springs?				
How many miles between Redding and Bakersfield?				
What is the distance in kilometers from Fresno to the nearest coastline?				

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