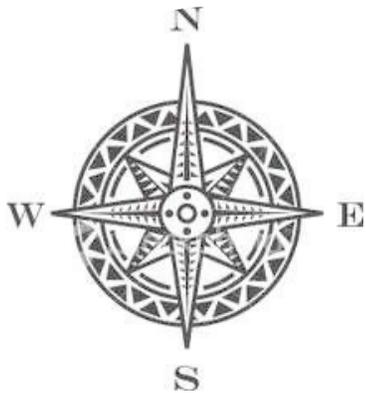


## Where on Earth Are You?

**Cross-Curricular Focus: History/Social Sciences**



The four cardinal directions are shown on a magnetic compass. They are north, south, east and west. The same four directions are also on a map. If you learn the cardinal directions, they can help you find where you are on a map.

A compass rose is a printed symbol that shows these directions. It can help you understand maps. A compass rose is usually drawn as art, with designs and details to make it beautiful. This is especially true on very old maps.

Another way to identify your exact location is to use lines of **latitude** and **longitude**. They are both imaginary lines that circle around Earth. Lines of latitude circle the Earth running east and west. Lines of longitude circle the Earth running north and south. Together, these lines form squares. It's like the lines you see on graph paper. If you look closely on most maps, you will see this graph paper printed on top of the map. If you look even closer, you will see numbers written by the lines. These numbers help to give addresses to places on Earth. The address for each place is known as its **absolute location**.

The **equator** is the main line of latitude that circles Earth. It is the same distance from the North Pole as it is from the South Pole. The equator is the starting point for measuring degrees of latitude. Each line of latitude is marked with a number that says how many degrees north or south of the equator it is.

The prime meridian is the main line of longitude that circles Earth. It is the starting point for measuring lines of longitude. Each line of longitude is marked with a number that says how many degrees east or west of the prime meridian it is. You can accurately identify absolute, or exact, locations on Earth. You determine the degrees that identify the latitude and longitude lines that cross closest to your location.

Name: \_\_\_\_\_

**Answer the following questions based on the reading passage. Don't forget to go back to the passage whenever necessary to find or confirm your answers.**

1) What is the purpose of a compass rose?

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2) What is a line of latitude? \_\_\_\_\_

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3) What is a line of longitude? \_\_\_\_\_

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4) In your own words, explain how to find an absolute location. \_\_\_\_\_

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5) Which is more helpful on a map, a compass rose, or lines of latitude and longitude? Why?

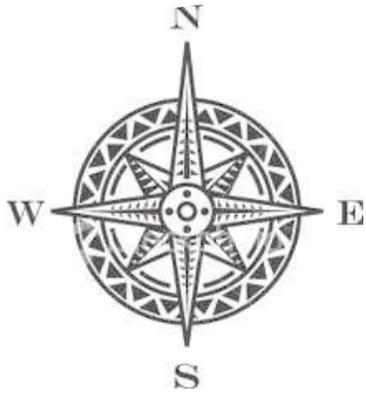
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Name: Key

Answer the following questions based on the reading passage. Don't forget to go back to the passage whenever necessary to find or confirm your answers.

**Actual wording of answers may vary.**

1) What is the purpose of a compass rose?

**It shows the cardinal directions on a map.**

2) What is a line of latitude? an imaginary line that circles Earth north and south

3) What is a line of longitude? an imaginary line that circles Earth east and west

4) In your own words, explain how to find an absolute location. Find the degrees of latitude and longitude.

5) Which is more helpful on a map, a compass rose, or lines of latitude and longitude? Why?

**Latitude and longitude are more helpful because they show absolute location. The compass rose only shows directions.**