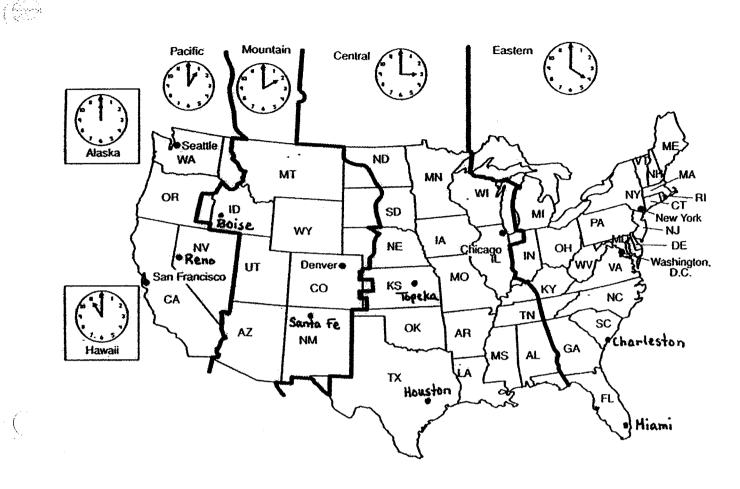
MVP



Math Activities

Solving US Time Zone Problems:



Using this time zone map, answer the following questions:

- 1. In which time zone is Victor, NY?
- 2. If it is 6:00 pm in New York City, what time is it in Chicago?
- 3. In which time zone is Denver, Colorado?_____

Time Zone Questions Continued...

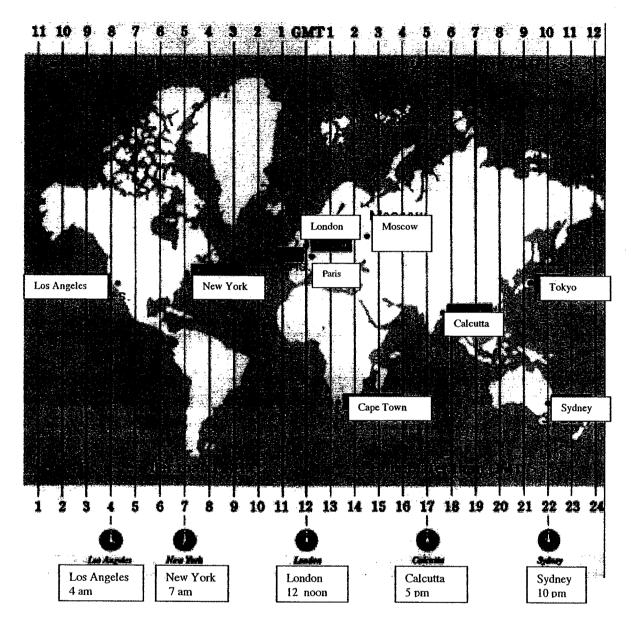
4.	In which time	zone is S	San Francisco?
4.	TH WHICH TIME	zone is a	oan rrancisco?

5. Is your local time different from Houston, TX? If so, how?

- 6. What time does your school day begin?_____
- 7. In which cities are students probably also in school at this time?
- 8. In which cities are students probably sleeping at this time?

- 9. List two cities that follow Mountain Standard Time.
- 10. If it is 1:00 pm in Los Angeles, what time is it in Miami?
- 11. If it is 9:00 am in Kansas City, what time is it in Reno, Nevada?
- 12. If it is 12:30 pm in Boise, Idaho, what time is it in Washington, D.C.?

Solving World Time Zone Problems:



The <u>Greenwich Meridian</u> (Prime Meridian or Longitude 0 degrees) marks the starting point of every time zone in the World. GMT is Greenwich Mean (or Meridian) Time is the mean (average) time that the earth takes to rotate from noon-to-noon.

GMT is World Time and the basis of every world <u>time zone</u>, which sets the time of day and is at the center of the time zone map. GMT sets current time or official time around the globe. Most time changes are measured by GMT. Although GMT has been replaced by atomic time (UTC) it is still widely regarded as the correct time for every international time zone.

Graphing Activity for MVP

Graphing Heights of Famous Places and Monuments

Directions:

Using the following places that Adam Story wanted to visit someday from pages 22-23, graph the heights of the following places.

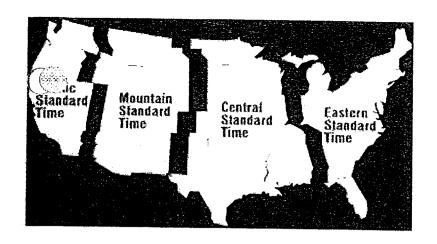
- 1. Find all the height data using the internet (Google).
- 2. Graph the information by creating a bar or line graph.
- 3. Create three comparison questions about your graph.

The tallest Pyramid of Giza, E	gypt	1	feet		
Mount Everest	_feet				
Mount Fuji, Japan	feet				
Empire State Building, NYC_		_feet			
Taipei 101 Building	feet				
Sears Tower, Chicago	feet				
Eiffel Tower, Paris	feet				
Niagara Falls, NY	feet				
Victoria Falls, Africa	feet				
Mount Rushmore	_feet			s - s	·

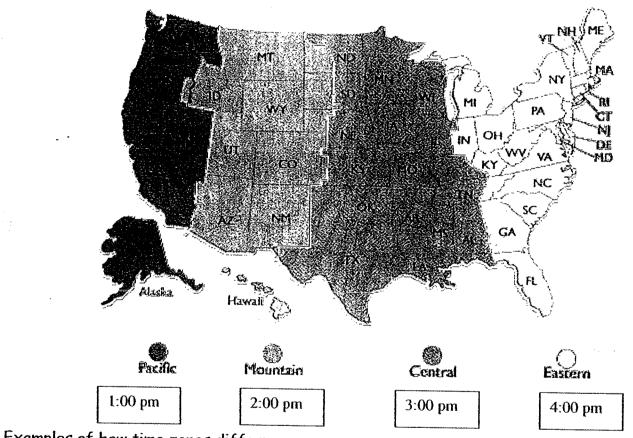
Use a separate sheet of graph paper to create your graph.

^{*} Or, use Microsoft Excel's Chart Wizard to create colorful graphs.

See Amy Smith-Faczan if you would like instruction on the program or to work with your entire class.

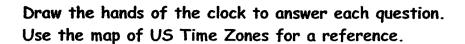


US Time Zone Maps

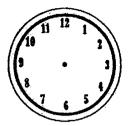


Examples of how time zones differ:

The United States has four main time zones. If you travel west, you gain one hour for every time zone crossed. If you travel east, you lose one hour for every time zone crossed.



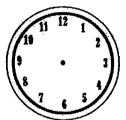
If it is 3:00 pm in New York, what time is it in California?



If it is 1:00 am in Montana, what time is it in Florida?



If it is 9:30 am in New Mexico, what time is it in Texas?



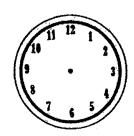
If it is 12:00 noon in Nebraska, what time is it in Oregon?



If it is 10:00 pm in Nevada, what time is it in Virginia?



If it is 4:30 pm in Ohio, what time is it in Louisiana?

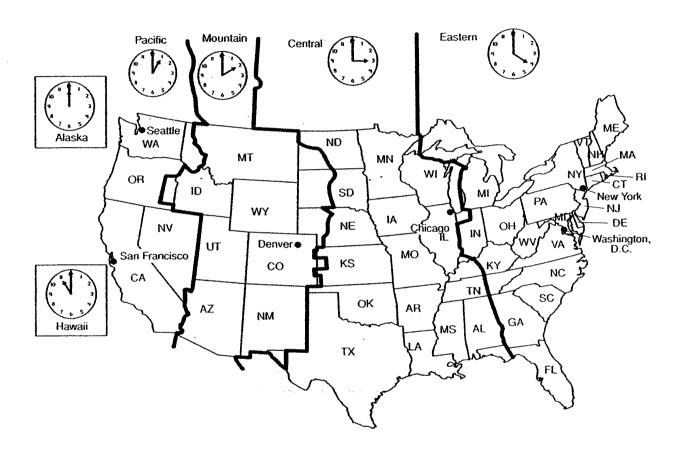


Name	 	

time zones

What's Your Zone?

The United States has four main time zones, as well as time zones for Alaska and Hawaii. Look at the time zone map below and answer the questions as if you live in New York.



- 1. You live in the time zone.
- 2. You call a friend in Denver at 8:00 A.M. eastern time. What time is it in Denver?
- 3. If your aunt in San Francisco calls you at 10:00 р.м. eastern time, what time is it in San Francisco? _____
- 4. A friend in Chicago needs to call your father in New York at 2:00 р.м. eastern time. What time should he call?
- 5. If you want to talk to someone in Washington, D.C., at 4:00 р.м., what time should you place your call? _____
- 6. Your friend in Hawaii wants to talk to you at 9:00 р.м. eastern time. What time should he call? ______

1 familie

Answer Key to Time Zone Worksheets:

Worksheet: "Solving Time Zone Problems"

- 1. Eastern
- 2. 5 pm
- 3. Mountain
- 4. Pacific
- 5. Yes, Houston in Central Standard Time, so there is a one hour time difference.
- 6. 8:20 am
- 7. (Any Eastern Time Zone cities can be listed.)
- 8. (Any MST or PST cities can be listed.)
- 9. Examples: Helena, Salt Lake City, Santa Fe, Denver
- 10. 4 pm
- 11. 7 am
- 12. 2:30 pm

Worksheet: "World Time Zone Problems"

- 1. 12 noon
- 2. 1 pm
- 3. 2 pm
- 4. 9 pm
- 5. 8 hours

Worksheet: "Draw the hands of the clock..."

- 1. 12 noon
- 2. 3 pm
- 3. 10:30 am
- 4. 10 am
- 5. 1 am
- 6. 3:30 pm

Worksheet: "What's Your Zone?"

- 1. Eastern
- 2. 5 am
- 3. 7 pm
- 4. 1 pm
- 5. 4 pm
- 6. 4 pm

ROMAN NUMERALS

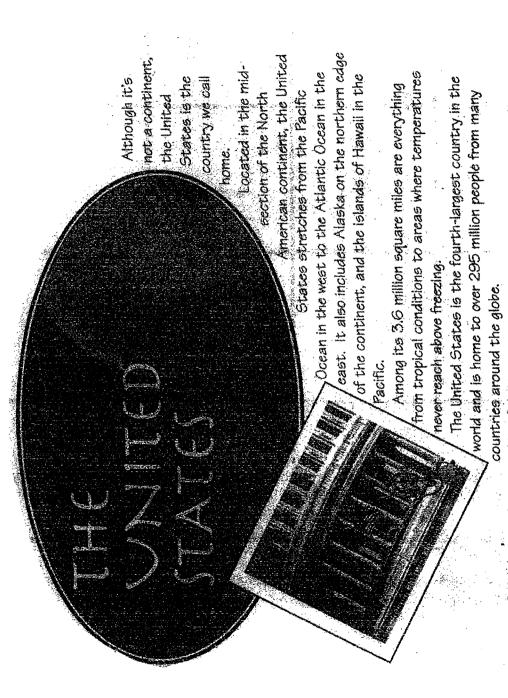
One Ι Two II Three III Four IV Five ٧ Six VI Seven VII Eight VIII Nine IX Ten X Eleven XI Twelve XII Thirteen XIII Fourteen **VIX** Fifteen X۷ Sixteen **IVX** Seventeen XVII Eighteen **IIIVX** Nineteen XIX Twenty XX Thirty XXX Forty XL Fifty L Sixty LX Seventy LXX Eighty **LXXX** Ninety XC One hundred C Five hundred D

One thousand M

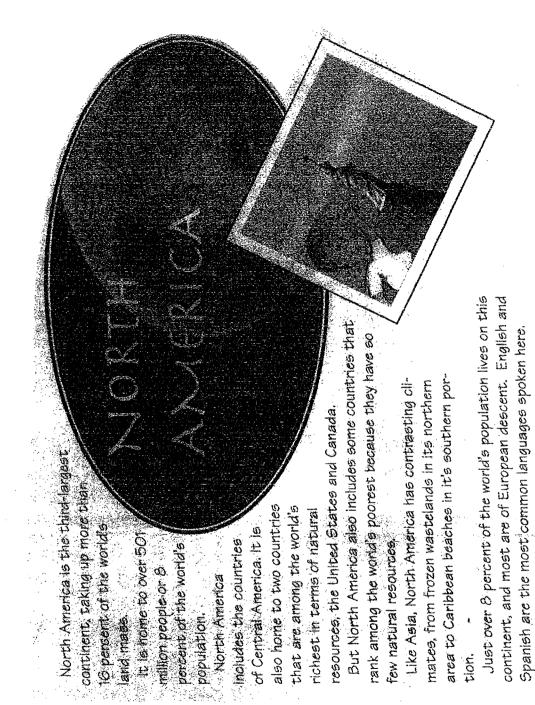
: (

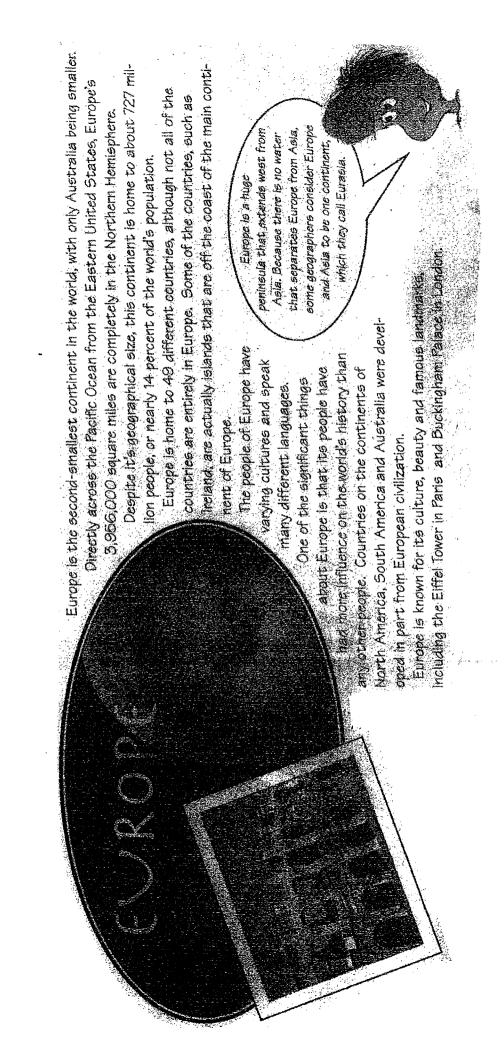
MVP: Social Studies Background Information



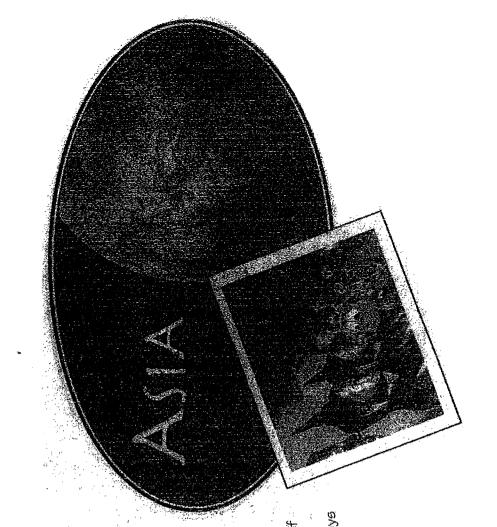


English is the primary language spoken here.





frid:



Asia is the world's largest continent. Home to 21 different countries, this continent accounts for about 30 percent of the Earth's land.

Asia is 17,400,000 square miles and stretches from Africa and Europe to the Pacific Ocean. It is so big it falls into all three climate zones and both the Northern and Southern hemispheres.

Asia also has the highest place on Earth, Mount Everest in China/Nepal, as well as the planet's lowest point; the Dead Sea shores in Israel and Jordan.

But the geography isn't the only unique thing about this continent. Asia is home to more than 3.8 billion people, or about 60 percent of the Earth's population. And among those people are numerous and vastly different cultures, each with its own religions, customs and ways



MVP: Social Studies Websites

- 1. Free virtual race: Winward: Outsmart the Weather in a Race Around the World to play at: www.ciconline.org/windward
- 2. Using the Geography Challenge, every student can track his or her knowledge against peers or simply monitor his or her own progress. For more information go to www.geographyzone.com
- 3. MVP Website: http://www.wtmelon.com/a25MVP.html
 Map: http://www.wtmelon.com/a37MVPFacts.html

Slide Show: http://www.wtmelon.com/MVPWebpage.htm

- 4. National Geographic: www.nationalgeographic.com/xpeditions/
- 5. Countries of the World Information:

http://www.infoplease.com/countries.html

http://dir.yahoo.com/Regional/Countries/

www.countryreports.org

www.studentsoftheworld.info/groups/

Social Studies Games:

www.apples4theteacher.com/socialstud.html

6. GPS Makers:

Magellan: www.magellangps.com

Garmin: www.garmin.com

Lowrance Electronics: www.lowrance.com

Trimble: www.trimble.com

TomTom International: www.tomtom.com

Navman USA: www.navman.com

Pharos Science & Applications: www.pharosgps.com

www.geocaching.com

www.wayhoo.com

http://geocoder.us

www.nasm.si.edu/gps.si.html

Free downloadable version of GPS/GIS software:

http://ersi.com/schools

MVP: Social StudiesWhere in the World?



Name	
1 (allie)	

Date _____

Where in the world is the country of

Shade in the country you are studying to show its location on the world map!



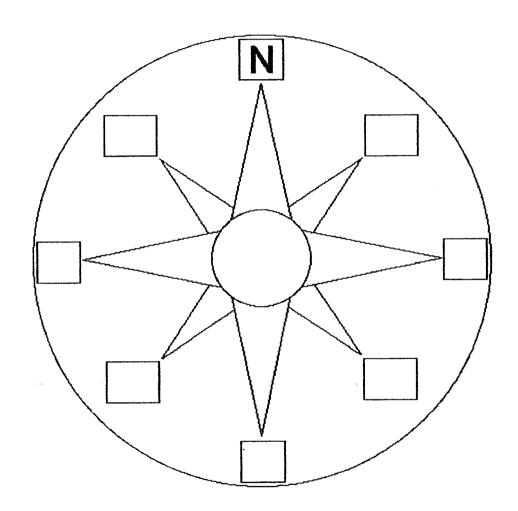
World

	1
Name	L
INAME	

Date	_

The Compass Rose

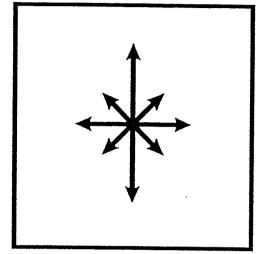
A compass rose is a design on a map that shows direction. It shows north, south, east, west, northeast, northwest, southeast, and southwest.



Can You Find Home?

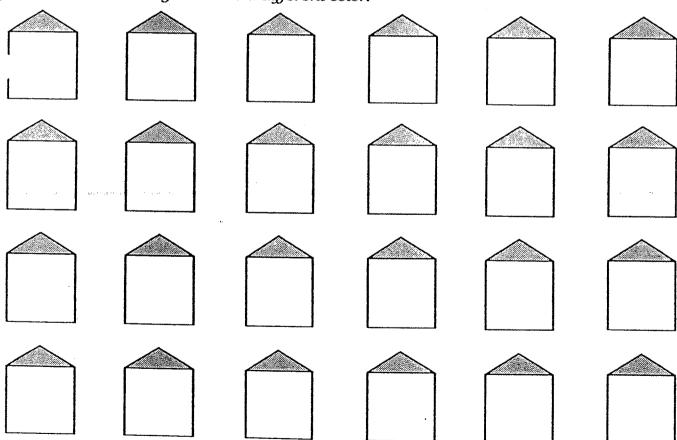
You are lost. Can you find your home by following the directions in the box below?

- 1. Begin in the most northwest home.
- 2. Move three houses east.
- 3. Move one house south.
- 4. Move two houses southwest.
- 5. Move one house west.
- 6. Move three houses northeast.
- 7. Move two houses southeast.
- 8. Move five houses west.
- 9. Move two houses north.
- 10. Move three houses southeast.



Label this compass rose.

Follow these directions. Color each of the houses you touch red. Color your home a different color.

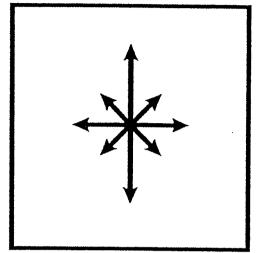


Can you rewrite the directions using fewer steps?

Can You Find Home?

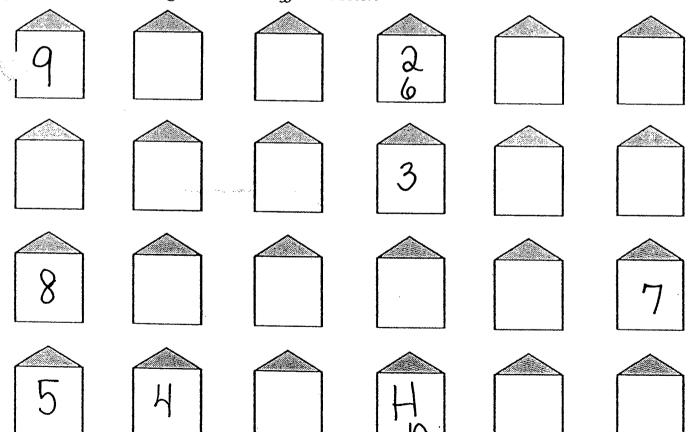
You are lost. Can you find your home by following the directions in the box below?

- 1. Begin in the most northwest home.
- 2. Move three houses east.
- 3. Move one house south.
- 4. Move two houses southwest.
- 5. Move one house west.
- 6. Move three houses northeast.
- 7. Move two houses southeast.
- 8. Move five houses west.
- 9. Move two houses north.
- 10. Move three houses southeast.



Label this compass rose.

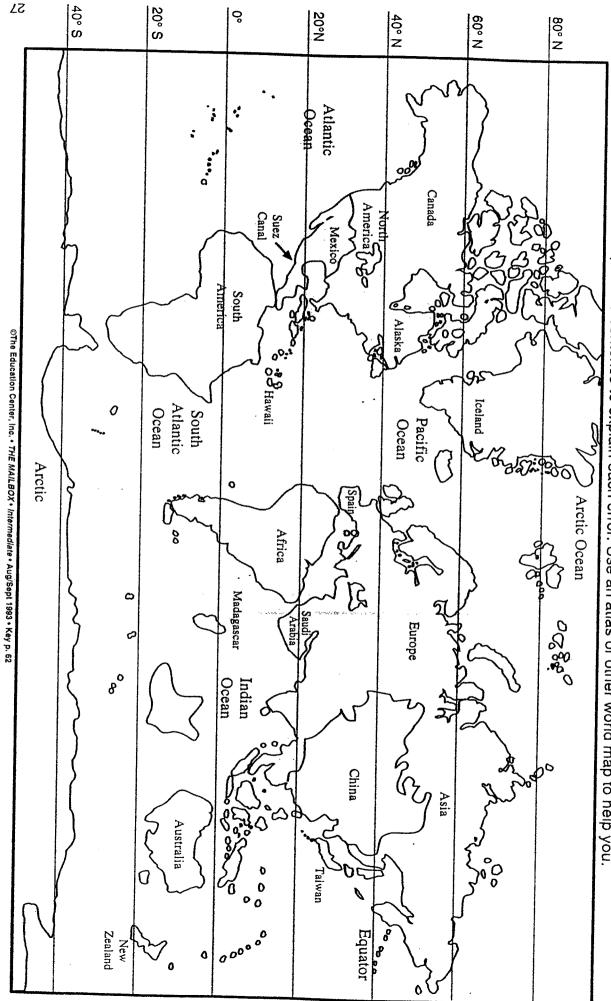
Follow these directions. Color each of the houses you touch red. Color your home a different color.



Can you rewrite the directions using fewer steps?

What In The World Is Wrong With This Map?

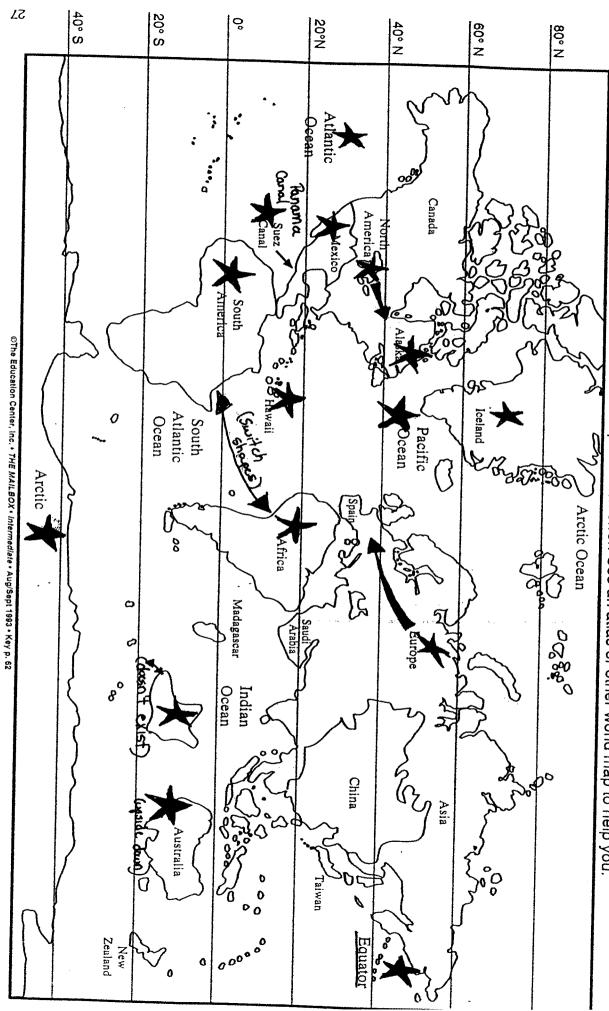
On the back of this sheet, write a sentence to explain each error. Use an atlas or other world map to help you. This may look like a perfectly normal world map, but look again! There are 15 errors in this map. Draw a \star on each error.



SK

What In The World Is Wrong With This Map?

On the back of this sheet, write a sentence to explain each error. Use an atlas or other world map to help you. This may look like a perfectly normal world map, but look again! There are 15 errors in this map. Draw a ★ on each error.



Name		
	_	

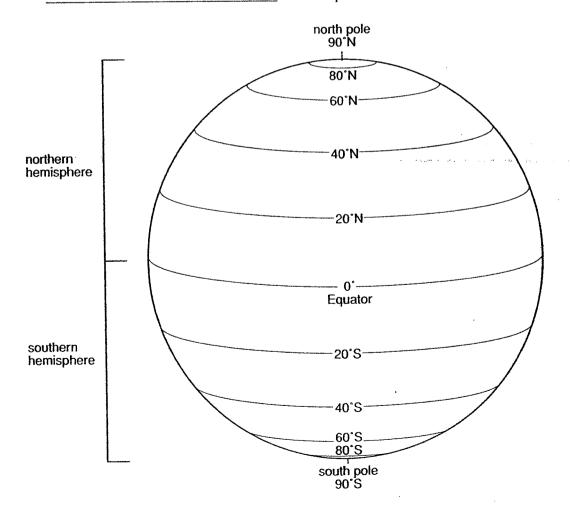
latitude

Where on Earth? Part 1

Lines of latitude are imaginary lines that run east to west around the earth. These lines are measured in degrees. The **equator** is 0° latitude, and it divides the earth into two halves, the **northern hemisphere** and the **southern hemisphere**. The map below shows lines of latitude in 20° segments. Use this map to answer the following questions.

- At what degree north can you find the north pole?

- 2. What is the 0° latitude line called?
- 3. At what degree south can you find the south pole? ______
- 4. The portion of the globe from 0° latitude to the north pole is the hemisphere.
- 5. The portion of the globe from 0° latitude to the south pole is the hemisphere.



Jane

Where on Earth? Part 1

Lines of latitude are imaginary lines that run east to west around the earth. These lines are measured in degrees. The equator is 0° latitude, and it divides the earth into two halves, the northern hemisphere and the southern hemisphere. The map below shows lines of latitude in 20° segments. Use this map to answer the following questions.

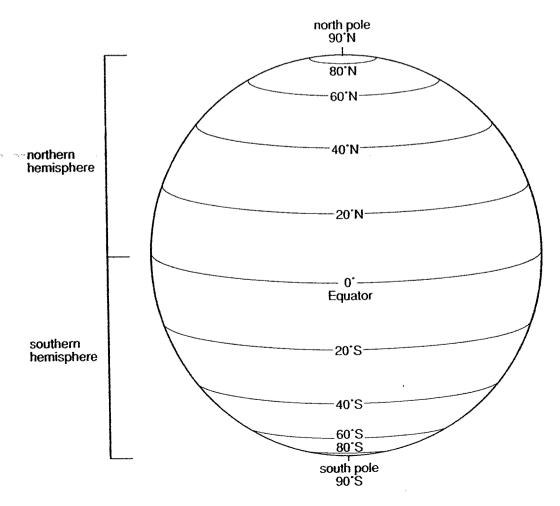
1. At what degree north can you find the north pole? ______

2. What is the 0° latitude line called? <u>equator</u>

3. At what degree south can you find the south pole? 90°

4. The portion of the globe from 0° latitude to the north pole is the northern hemisphere.

5. The portion of the globe from 0° latitude to the south pole is the southern hemisphere.



Name	•
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

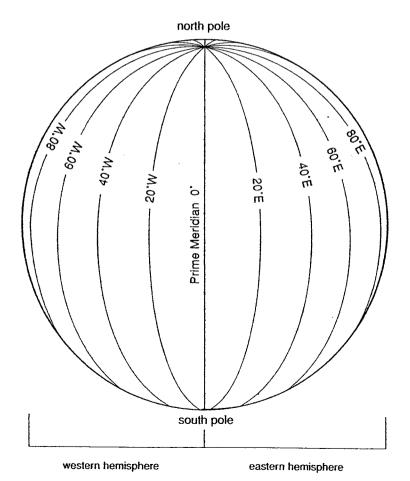
longitude

### Where on Earth? Part 2

**Lines of longitude** are imaginary lines that run north to south on the Earth. They are measured in degrees and are used with lines of latitude to help locate places on the globe. The **prime meridian** is 0° longitude. Along with **180° longitude**, it divides the Earth into eastern and western hemispheres. The world **time zones** begin at this line. The map below shows lines of longitude in 20° segments. Use the map to answer the following questions.

١.	What is the line at 0° longitude	e calleq;		····	
2.	The portion of the globe from	the prime meridian	east to	180° long	gitude is
	the	hemisphere.			

3. The portion of the globe from the prime meridian west to 180° longitude is the ______ hemisphere.



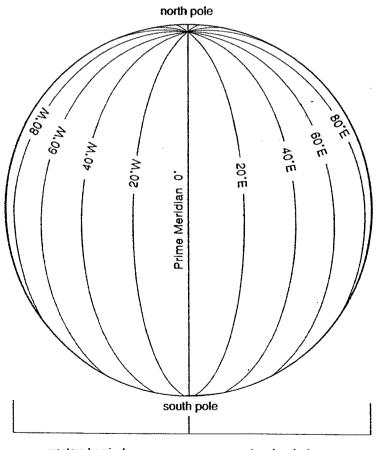
© Carson-Deliosa CD-4703

28

### Where on Earth? Part 2

Lines of longitude are imaginary lines that run north to south on the Earth. They are measured in degrees and are used with lines of latitude to help locate places on the globe. The **prime meridian** is 0° longitude. Along with 180° longitude, it divides the Earth into eastern and western hemispheres. The world time zones begin at this line. The map below shows lines of longitude in 20° segments. Use the map to answer the following questions.

- 1. What is the line at 0° longitude called? <u>prime</u> <u>meridian</u>
- 2. The portion of the globe from the prime meridian east to 180° longitude is the <u>eastern</u> hemisphere.
- 3. The portion of the globe from the prime meridian west to 180° longitude is the <u>western</u> hemisphere.



western hemisphere

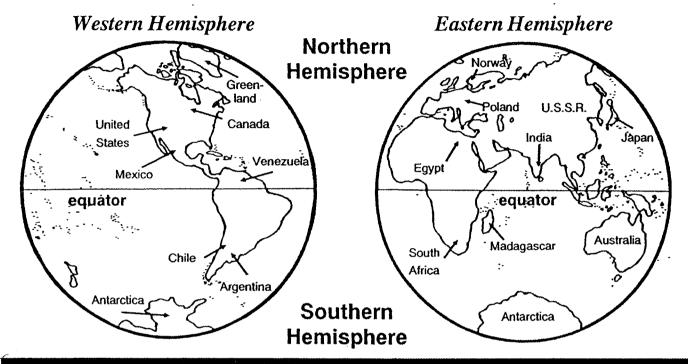
eastern hemisphere

To our

### Where Is It?

7. ...

Use the hemisphere maps on this page to help you locate the correct hemispheres for the places listed below.



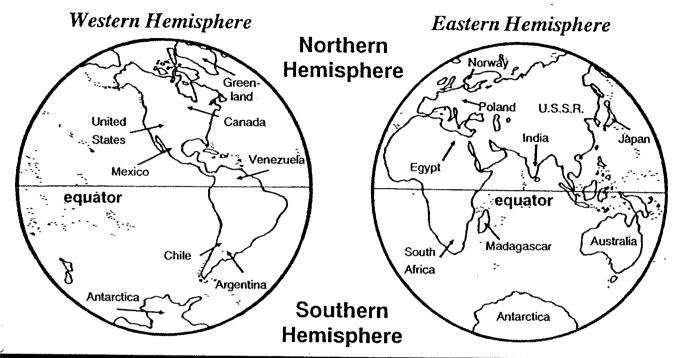
Hemisphere Location Chart			
Place	Hemisphere (Northern or Southern)	Hemisphere (Eastern or Western)	
1. South Africa	- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	·	
2. Norway			
3. Venezuela			
4. Canada			
5. Japan			
6. Mexico			
7. U.S.S.R.			
8. Egypt			
9. United States			
10. Argentina			
11. Poland	·		
12. Greenland			
13. India			
14. Chile			
15. Madagascar	·		
16. Australia			

Key

### Where Is It?

, (A.)

Use the hemisphere maps on this page to help you locate the correct hemispheres for the places listed below.



Hemisphere Location Chart			
Place	Hemisphere (Northern or Southern)	Hemisphere (Eastern or Western)	
1. South Africa	Southern	Eastern	
2. Norway	Northern	Eastern	
3. Venezuela	Northern	Western	
4. Canada	Northern	Western	
5. Japan	Northern	Fastern	
6. Mexico	Northern	Western	
7. U.S.S.R.	Northern	Eastern	
8. Egypt	Northern	Eastern	
9. United States	Northern	Western	
10. Argentina	Southern	Western	
11. Poland	Northern	Eastern	
12. Greenland	Northern	Western	
13. India	Northern	Fastern	
14. Chile	Southern	Western	
15. Madagascar	Southern	Eastern	
16. Australia	Southern	Easturn	

**MVP: Social Studies**Latitude and Longitude

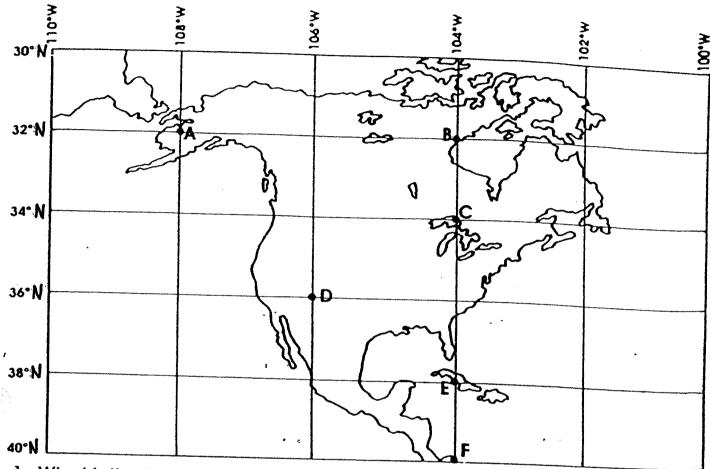


 $\mathcal{F}\left( \gamma, \gamma \right)$ 

### Using Latitude and Longitude

Name ____

Use the latitude and longitude grld to pinpoint each location specified in the questions below.



1. What is the latitude of . . .

point A?

point B?

point C?

2. What is the longitude of ...

point A? _____

point C?

point D?

point E? ______
point F? _____

point **D**?

point E?

point F?

3. Give the location of ...

point A.

point B.

point C.

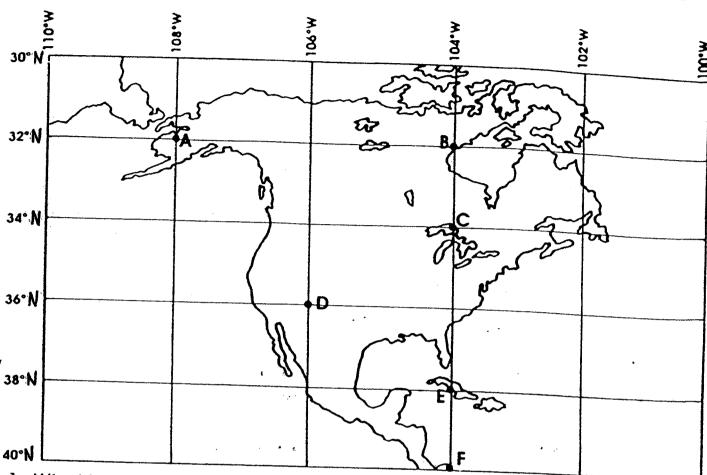
point D.

point E.

point F.

### Using Latitude and Longitude

Use the latitude and longitude grld to pinpoint each location specified in the questions below.



1. What is the latitude of . . .

point	Α?	36
point	<b>A</b> ?	3

34° N point C?

point D?

36° N

38° N point E?

40° N point F?

2. What is the longitude of . . .

point B?

point A? ______ 108° W

point B?

104° W

point C?

104° W

point **D**?

106° W

point E?

104° W

point F?

___104°W

3. Give the location of.

point A.

32° N

point B.

32°N

point C.

point D.

36°N 106°W

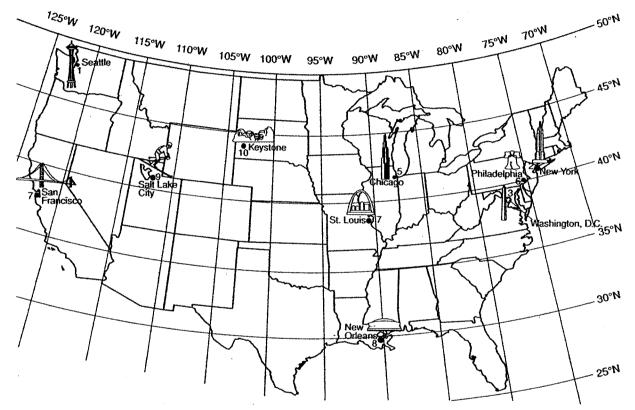
point E.

point F.

latitude and longitude

### Locating Landmarks

Find each landmark by locating its number on the map below. Then, fill in the missing information. Estimate the latitude and longitude of the cities where the landmarks or events are located or write the cities' names that match the coordinates given.

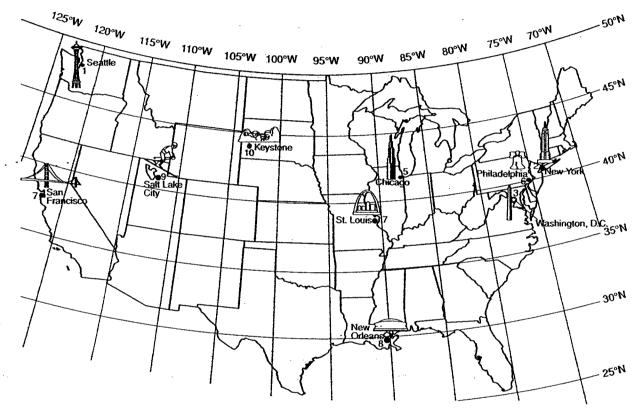


	Landmark	Latitude	Longitude	City
1.	Space Needle	<u>48°N</u>	<u>122°W</u>	
2.	Empire State Building			New York
3.	Washington Monumer	nt <u>39°N</u>	<u>77°W</u>	
4.	Gateway Arch		····	St. Louis
5.	Sears Tower			Chicago
6.	Liberty Bell	<u>40°N</u>	<u>76°W</u>	
7.	Golden Gate Bridge	<u>38°N</u>	122°W	
8.	Superdome		***************************************	New Orleans
9.	2002 Winter Olympics		***************************************	Salt Lake City
10.	Mt. Rushmore	<u>44°N</u>	104°W	

T--

### Locating Landmarks

Find each landmark by locating its number on the map below. Then, fill in the missing information. Estimate the latitude and longitude of the cities where the landmarks or events are located or write the cities' names that match the coordinates given.



	Landmark	Latitude	Longitude	City .
1.	Space Needle	<u>48°N</u>	122°W	Seattle
2.	Empire State Building	41'N	74'W	New York
3.	Washington Monumer	nt <u>39°N</u>	<u>77°W</u>	Washington, D.C.
4.	Gateway Arch	38°N	91°W	St. Louis
5.	Sears Tower	42°N	88°W	Chicago
6.	Liberty Bell	<u>40°N</u>	<u>76°W</u>	Philadelphia
7.	Golden Gate Bridge	<u>38°N</u>	122°W	San Francisco
8.	Superdome	<u>30°N</u>	90°W	New Orleans
1.	2002 Winter Olympics	41°N	113°W	Salt Lake City
10.	Mt. Rushmore	<u>44°N</u>	<u>104°W</u>	Keystone

Acres.

### Latitude and Longitude

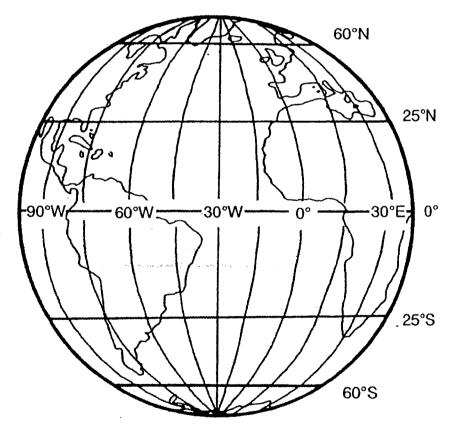
You can find places in the world by knowing how to read *latitude* and *longitude* lines. Latitude and longitude lines (also called *meridian* lines) are imaginary lines that divide the Earth. You have already learned two of these lines — the equator and the prime meridian. The equator is the main line of latitude. The prime meridian is the main line of longitude.

**Latitude** lines run from west to east. They measure distances north and south of the equator.

The equator cuts the world into north and south latitude. The equator is marked 0 degrees. The latitude lines north of the equator are marked  $^{\rm o}N$  (degrees north) and the latitude lines south of the equator are marked  $^{\rm o}S$  (degrees south).

Longitude lines run from north to south, pole to pole. They measure distances west and east of the prime meridian.

The prime meridian cuts the world into west and east longitudes. The longitude lines west of the prime meridian are marked °W (degrees west) and the longitude lines east of the prime meridian are marked °E (degrees east).



Which lines run from west to east?	
2. Which lines run from north to south?	
3. The equator is a line of	(latitude or longitude)
4. The prime meridian is a line of	. (latitude or longitude)

31

### Key Latitude and Longitude

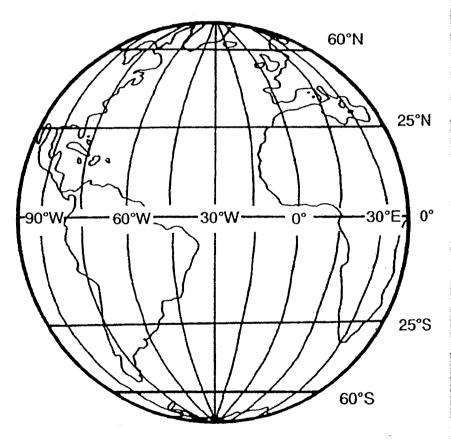
You can find places in the world by knowing how to read *latitude* and *longitude* lines. Latitude and longitude lines (also called *meridian* lines) are imaginary lines that divide the Earth. You have already learned two of these lines — the equator and the prime meridian. The equator is the main line of latitude. The prime meridian is the main line of longitude.

Latitude lines run from west to east. They measure distances north and south of the equator.

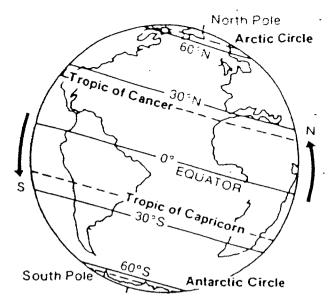
The equator cuts the world into north and south latitude. The equator is marked 0 degrees. The latitude lines north of the equator are marked  $^{\rm O}N$  (degrees north) and the latitude lines south of the equator are marked  $^{\rm O}S$  (degrees south).

Longitude lines run from north to south, pole to pole. They measure distances west and east of the prime meridian.

The prime meridian cuts the world into west and east longitudes. The longitude lines west of the prime meridian are marked °W (degrees west) and the longitude lines east of the prime meridian are marked °E (degrees east).



Which lines run from west to east? Latitude.
 Which lines run from north to south? Longitude
 The equator is a line of Longitude. (latitude or longitude)
 The prime meridian is a line of Longitude. (latitude or longitude)



#### **Imaginary Lines**

Geographers have set up imaginary lines on the earth to help us locate landmasses and define climate changes. These lines are measured in degrees.

Lines of latitude or parallels start at the equator or 0°. The equator circles the globe at its widest point, dividing the earth into the Northern and Southern Hemispheres.

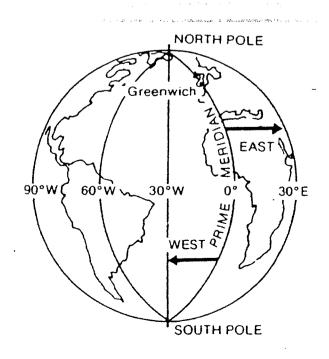
Other imaginary lines circle the globe at equal distances from the equator. These lines go in an east-west direction and are used to measure distance on the earth north and south of the equator. The Tropic of Cancer (about 23° north) and the Tropic of Capricorn (about 23° south) are two special lines of latitude. The land and water between these two latitudes lie in the Torrid Zone or low latitudes. It is warm all year in this region except in the high mountains.

Between the Tropic of Cancer and the Arctic Circle in the north and between the Tropic of Capricorn and the Antarctic Circle in the south are the Temperate Zones. The areas within these middle latitudes have four seasons. Areas north of the Arctic Circle and south of the Antarctic Circle lie in the Frigid Zones or high latitudes. These regions can have days without darkness in the summer and days without sunlight in the winter.

A line of longitude or meridian is an imaginary north-south circle that passes through both poles. Lines of longitude are not parallel. Distance between the lines grows smaller near the poles.

Meridians are measured in degrees starting at 0° at the **Prime Meridian**. This meridian is the north-south line on a map that passes through the Royal Astronomical Observatory in Greenwich, England. The Prime Meridian divides the globe into the Western and Eastern Hemispheres.

At 180° longitude there is an imaginary line called the International Date Line. By international agreement, the calendar date is one day earlier as we cross this meridian from east to west and one day later from west to east.



#### Globe Use

Label directions:

NORTH
SOUTH
EAST
WEST

Locate:

NORTH POLE
SOUTH POLE
SOUTH POLE
The 'EQUATOR" with a big "E"

Use the drawing above to answer the questions 1 through 7.

- 1. What number shows the Equator?
  - a. 1

b. 3

c. 4

- d. 7
- 2. What number shows the Tropic of Cancer?
  - a. 1

b. 4

c. 6

- d. 5
- 3. What number shows the Antarctic Circle?
  - a. 7

b. 6

c. 4

d. 5

- 4. What number shows the North Pole?
  - a. 3
- b. 1

c. 2

- d. 6
- 5. What number shows the Tropic of Capricorn?
  - a. 6

b. 3

c. 4

d. 5

- 6. What number shows the Arctic Circle?
  - a. 2

b. 1

c. 6

d. 7

- 7. What number shows the South Pole?
  - a. 2

b. 3

c. 5

d. 4

Globe Use

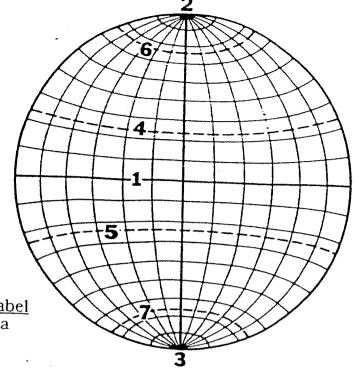
Label directions:

NORTH SOUTH **EAST** WEST

Locate:

NORTH POLE SOUTH POLE

Cravon the line and label the 'EQUATOR" with a big "E"



Use the drawing above to answer the questions 1 through 7.

1.	What	number	shows	the	Equator?
----	------	--------	-------	-----	----------

b. 3

c. 4

- d. 7
- 2. What number shows the Tropic of Cancer?
  - a. 1

c. 6

- d. 5
- 3. What number shows the Antarctic Circle?

b. 6

c. 4

d. 5

- What number shows the North Pole? 4.
  - a. 3

b. 1

- d. 6
- 5. What number shows the Tropic of Capricorn?
  - a. 6

b. 3

- What number shows the Arctic Circle? 6.
  - a. 2

b. 1

d. 7

- What number shows the South Pole?
  - a. 2

c. 5

d. 4

#### What is Latitude?

Complete the Following

Latitude is defined as a measurement of distance in degrees 90° N north or south of the equator. The word latitude is derived from 60° N the Latin, "latus", meaning "wide." 30° N There are ninety degrees of latitude from the equator to each of the poles. Latitude lines are pictured on the globe **EQUATOR 0º** to the right. Latitude lines are parallel, that is they are the 30° S same distance apart. In fact, they are sometimes called parallels.

The equator is 0°. It divides the earth in half. It is called the equator all the way around the earth. You can image that the equator is like a belt on a skirt or a pair of jeans.

Positions on latitude lines above the equator are called "north" and are in the northern hemisphere. They are abbreviated N. St. John's, Newfoundland, for example, is near 49°N. Positions on latitude lines below the equator are called "south" and is abbreviated 5. They indicate the position is in the southern hemisphere.

60° S

90° S

	3		
a.	Lines of latitude are	to the equator.	
b.	There are de	grees of latitude north and south of the equator.	
c.	The equator is deg	rees.	
d.	Another name for latitude	e lines is	
e.	The equator divides the e	arth into equal parts.	
Wri	te a definition of latitude.		

Created by Jim Cornish, Gander Academy Diagrams Used by Permission of The Mariner's Museum http://www.mariner.org/age/index.html

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EQUATOR 0°

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60° S

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The equator is 0°. It divides the earth in half. It is called the equator all the way around the earth. You can image that the equator is like a belt on a skirt or a pair of jeans.

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#### Complete the Following

- a. Lines of latitude are <u>paralle</u> to the equator.
- b. There are <u>40</u> degrees of latitude north and south of the equator.
- c. The equator is _____ degrees.
- d. Another name for latitude lines is <u>Darallel5</u>
- e. The equator divides the earth into ______ equal parts.

Write a definition of latitude.

hatitude is a measurement of distance in degrees north or south of the equator.

Created by Jim Cornish, Gander Academy
Diagrams Used by Permission of The Mariner's Museum
http://www.mariner.org/age/index.html

#### What is Longitude?

Longitude is defined as measurement of distance in degrees east or west of the prime meridian. The word is derived from the Latin, "longus", meaning "length". The prime meridian divides the earth in half too. It is also 0° and passes through the community of Greenwich, England.

The prime meridian as do all other lines of longitude, pass through the north and south pole. This is shown in the diagram to the right. These lines are not parallel. They make the earth look like a peeled orange.

Because the earth is round like a ball, not all longitude lines are visible. There are 180 other lines of longitude on the other side of the globe. But on the opposite side, the prime meridian is 180 or and is called the International Date line.

Longitude lines to the left of the prime meridian give locations west, in the western hemisphere. Longitude lines to the right of the prime meridian give locations east, in the eastern hemisphere. St. John's, Newfoundland, for example is near the 52 ° W line of longitude.

#### Complete the Following

a.	Longitude lines connect the	pole with the	pole.
b.	The line of 0°C longitude is called the		*
c.	Longitude lines give directions	and	of the prime meridian.
d.	There are degrees of	longitude each side of the	e prime meridian.
e.	Longitude lines are not	like latitude lines.	
Writ	te a definition of longitude.		
- <del>-</del>			

Created by Jim Cornish, Gander Academy
Diagrams Used by Permission of The Mariner's Museum
http://www.mariner.org/age/index.html

PRIME MERIDIAN

NTERNATIONAL DATELINE 180°

**₹** 

8

8

#### What is Longitude?

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#### Complete the Following

a.	Longitude lines connect	the North	pole with t	he <u>South</u>	pole.
				_	

b. The line of 0°C longitude is called the <u>Prime</u> meridian

c. Longitude lines give directions <u>east</u> and <u>WCST</u> of the prime meridian.

d. There are 180 degrees of longitude each side of the prime meridian.

e. Longitude lines are not <u>parallel</u> like latitude lines.

Write a definition of longitude.

in degrees east or west of the prime meridian.

Created by Jim Cornish, Gander Academy
Diagrams Used by Permission of The Mariner's Museum
http://www.mariner.org/age/index.html

NTERNATIONAL DATELINE

8





As head of the Spiffy Salvage Company, your job is to locate sunken ships around the world. Using the map below, you need to pinpoint five different ships with valuable cargoes, so they can be salvaged.

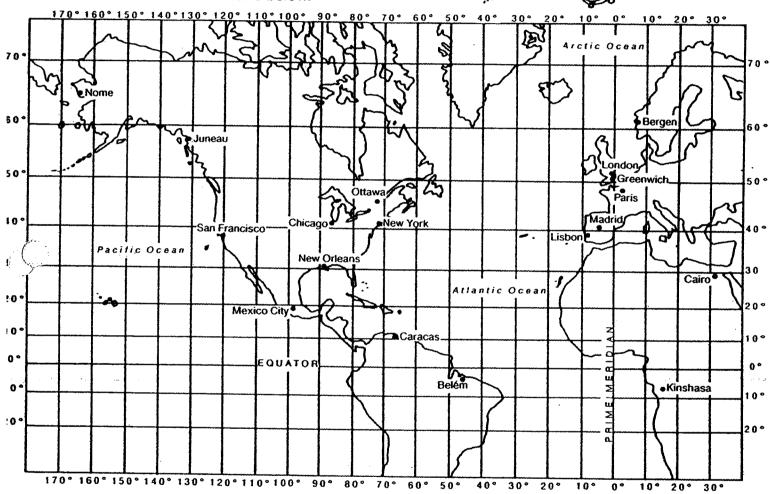
Hint: N = latitude north of (above) the equator

S = latitude south of (below) the equator

W = longitude west (left) of the prime meridian

E = longitude east (right) of the prime meridian

Now follow the instructions below.



- 1. Your first ship is located off the coast of Alaska at 60° N latitude, 170° W longitude. (Put a ① at this spot.)
- The second ship, near San Francisco, is at 35° N latitude, 125° W longitude. (Put a @ here.)
- 3. Ship number three is off South America at 10° S latitude, 85° W longitude. (A ③ goes here.)
- 4. Your fourth find is near Norway at 64° N latitude, 5° E longitude. (Put a ④ at this spot.)
- 5. The fifth ship, off the African coast, is at 20° N latitude, 23° W longitude. (A § goes here.)





#### SPOT THE SUNKEN SHIPS



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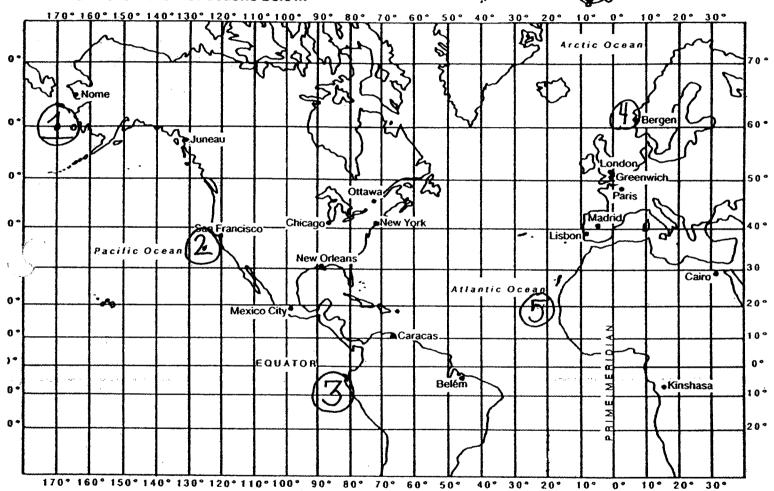
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## MVP: Social Studies GPS



#### **GPS SYTEMS**

The Global Positioning System, usually called GPS, is the only fully-functional satellite navigation system. A constellation of more than two dozen GPS satellites broadcasts precise timing signals by radio to GPS receivers, allowing them to accurately determine their location (longitude, latitude, and altitude) in any weather, day or night, anywhere on Earth.



United States Department of Defense developed the system, officially named NAVSTAR GPS (Navigation Signal Timing and Ranging GPS), and the satellite constellation is managed by the 50th Space Wing at Schriever Air Force Base. Although the cost of maintaining the system is approximately US\$400 million per year, including the replacement of aging satellites, GPS is available for free use in civilian applications as a public good.

#### **Navigation**

(1)

GPS is used by people around the world as a navigation aid in cars, airplanes, and ships. The system can also be used by computer controlled harvesters, mine trucks and other vehicles. Hand-held GPS receivers can be used by mountain climbers and hikers. Glider



pilots use the logged signal to verify their arrival at turnpoints in competitions. Low cost GPS receivers are often combined in a bundle with a PDA, car computer, or vehicle tracking system. GPS equipment is even available for the visually impaired.

#### Geocaching

The availability of hand-held GPS receivers for a cost of about \$90 and up (as of March 2005) has led to recreational applications including Geocaching. Geocaching involves using a hand-held GPS unit to travel to a specific longitude and latitude to search for objects hidden by other Geocachers. This popular activity often includes walking or hiking to natural locations.

# Where on Earth are you? Just ask GPS

## It's becoming part of everyday life for millions

#### **JULIE MORAN ALTERIO**

WESTCHESTER JOURNAL NEWS

On a February afternoon, Ed Hicks is at the Beaver Dam Sanctuary in Katonah, Westchester County, which is on the west side of Route 22 and across the road from the Harvey School.

Or, putting it another way, Hicks is at latitude 41 degrees, 15 minutes and 14 seconds north and longitude 73 degrees, 40 minutes and 42 seconds west.

Hicks knows exactly where he is on Earth, thanks to a Global Positioning System receiver tucked into a pocket in his cap. The GPS unit communicates wirelessly with a wearable PC strapped his waist.

nearby Somers, is using GPS to doublecheck the location of a stand of trees for a map he's making of the nature preserve.

A retired seventh-grade science teacher, Hicks has a second career making trail maps, and GPS is a vital part of his work.

With GPS, Hicks can watch his steps turn into a trail right on the map displayed on the screen of his PC.

When he heads home, Hicks uses GPS to navigate in his car. And when he sets out on a hike, he takes his GPS to find his

"It's great in helping keep track of

GPS, PAGE 8E

#### **GPS** makers

Magellan: www.magellangps.com Garmin: www.garmin.com Lowrance Electronics: www.low

Trimble: www.trimble.com

**TomTom International:** www.tom tom.com

Navman USA: www.navman.com Pharos Science & Applications: www.pharosops.com

#### Other useful Web sites

geocaching.com

www.wwayhoo.com (coordinate database consisting of 1.7 million locations you can download to your GPS)

http://geocoder.us (find the latitude and ongitude of U.S. addresses)

www.nasm.si.edu/gps/si.html (Smithsonian primer on GPS)



STUART BAYER Gannett News Service

Ed Hicks, a retired seventh-grade science teacher, has made a second career out making trail maps, using a Global Positioning System receiver turked into his can

ROM PAGE SE

GPS is becoming a part of everyday life for millions of where you are," Hicks says. people at work and in their personal lives,

Like the Internet, GPS is a

Department of Defense project that's turned into a commercial David A. Sampson, deputy STOCKS.

commerce secretary, estimates GPS units sold are for civilian that sales of GPS technology year, About 95 percent of the have surpassed \$20 billion a

wristwatches and cell phones. More than 150 million people hand-held receivers, laptops, GPS technology is in cars, around the world use GPS.

for less than \$100, has made the The falling cost of hand-held units, which can be purchased hikers, skiers and other lovers technology popular among of the outdoors.

says F. Michael Swiek, executive

director of the GPS Industry

Council of Washington, D.C.

Overhead, orbiting the Earth

twice a day, are the two dozen

satellites that enable GPS.

Its usefulness providing turn-Motors. In model year 2007, the made navigational GPS popular for drivers. Four million people carmaker expects to ship 1 million vehicles with the technolby-turn directions in cars has subscribe to service from On-Star, a subsidiary of General

The satellites broadcast radio

signals. Receivers on the planet

calculate their location based

on the time it takes for the sig-

nals to reach them,

in the public sector, GPS is used by municipalities to dis-In business, companies are ambulances more efficiently. patch police, fire trucks and

satellites are accurate to within

a few nanoseconds - or bil-

lionths of a second.

Atomic clocks onboard the

Locking in on location

using GPS to track ships at sea matic farm vehicles that sow It's even installed on autoand trucks on shore,

inexpensive quartz clocks that

Although the receivers use are less accurate, they gather

> rows of crops guided by satel-Banks and telecommunications companies use GPS to lites in the sky

itude, longitude and altitude. GPS is unaffected by weather,

satellites to get a lock on lat-

the signal from at least four

but can only be used outdoors,

It doesn't function as well in

forests where an unobstructed

view of the sky is rare.

Almost all cell phones manu-GPS technology to signal their factured today use embedded location when someone calls synchronize their clocks.

STUART BAYER Gannett News, Service "it's great in helping keep track of where you are," says Ed Hicks, alke, the outdoor enthusiast takes his GPS along to find his way. who uses GPS to navigate in his car. And when he sets out on a

since the first GPS satellite was introduced by the military in 1978. "If you're living and breathing standing still, you're using GPS, on the planet Earth, moving or whether you know it or not,"

tional errors were introduced to nonmilitary use. Early receivers could report a location within In 2000, the system became much more useful for civilian scrambled. Before that, intenordered the radio signals unuse when President Clinton make GPS less accurate for

dentify a location as accurately as 3 feet to 6 feet, depending on whether the unit has enhanced technology to correct errors from such factors as the signal Today, consumer GPS can passing through the atmosphere.

within a couple of hundred feet. New Rochelle resident Chris Russo bought the GPS to use ago, could only find a location purchased more than 10 years Russo says his first GPS unit,

remembers plugging data into a machine very much like a calcucluding hang gliding and scuba Unlike today's units, which feature colorful maps, Russo in his outdoor activities, in-

lator in its interface. He also

ings, GPS has become the default for navigation in the years

Even with those shortcom-

"I was a gadget freak, which I gadget," says Russo, who works paid a lot more: About \$1,000. for the Department of Homeland Security at Westchester still am, and it was a new County Airport.

Today, he uses a GPS unit that cost about \$400. He plugs it into a laptop and carries it with him in his jeep to navigate on unfamiliar roadways.

roads without worrying about Russo loves being able to explore inviting lanes and back A motorcycle enthusiast,

directions," Russo says. "I use it "I can just plug it in, and it gives me voice-guided road

Participants go online to

tic container, generally contains The cache, often a humble plasa log book where finders record their achievement. Participants The reward is a sense of fun. treasure, such as a small toy or also frequently swap token

ance employee at Lillian Vernon gion, including along Interstate Corp. in White Plains, has sev-Jane Hiller, a quality assursouvenir

analyst at Frost & Sullivan, says

the first contact most con-

She also has one that's within "About 20 people have found it, but I've never seen them," she mute from Danbury, Conn. view of her office window.

64 caches, including on trips to She's personally found about

Mark Juenemann of Mahopac treasure, and Juenemann thinks it's a great way to rid his home of an oversupply of toys from The children love to swap daughters, who are 8 and 5. enjoys the hobby with his

Juenemann started using GPS on elk hunts when he lived in "The kids like to trade," he An avid hunter and hiker, says.

McDonald's.

Today, he has a \$200 unit he as well as another \$139 unit he geocaching trips with the kids slips into his shirt pocket for Oregon in the late 1990s.

don't have to mess with maps," "You never get lost and you in the car.

plugs into his laptop to navigate

# New satellite, new signal

As useful as it is today, GPS is entwined in our daily lives now expressly for civilian users was ntroduced by the Air Force in September and put into operhat a new satellite designed likely to become even more ation in December.

The new signal works better ndoors and in cities where tall boon for lightweight units and which means that it takes less energy to receive the signal, a buildings can interfere with reception. It's also stronger, Brent ladarola, a wireless cell phone applications.

aware of it, the Federal Commuping cell phones with GPS, says though few carriers have rolled means manufacturers are shipnications Corp.'s E911 mandate equipped with the technology, Though most people aren't fadarola, who estimates 70 through their cell phones. sumers have with GPS is million cell phones are

Sprint, was early with products Nextel, which is now part of including the ability to track for business starting in 2001, out services for consumers, mobile workers.

finding his way back home.

every single day, no matter where I'm driving."

Geocaching

Beyond the obvious utility of driving directions, GPS has also given the world a new hobby, called geocaching.

cache, which is often hidden in learn about "caches" hidden by coordinates, they seek out the other hobbyists. Using GPS a place of natural beauty.

eral caches hidden in the re-684, which is her daily com-

says.

the British Virgin Islands.

"The beauty of geocaching is it brings you to beautiful spots that you might not normally find," she says.



Names _____

#### Part 1: Pick a Hiding Spot

- 1. Find a good hiding spot for your treasure in the area specified by your teacher. Be sure to pick a safe area and put it in a place so it can be seen!
- 2. Use your GPS receiver to mark a waypoint (location). Record the number for this waypoint and its latitude and longitude in the box.

OUR SECRET HIDING SPOT
Receiver #
Waypoint #
Latitude:
Longitude:
Description of Location:

- 3. Complete the box at the bottom of this page and tear it off.
- 4. Return to HOME BASE. Give your receiver and the "Can you find our treasure?" slip to your teacher.

Fill out this slip and tear it off. This slip will be given to another team along with your receiver.

Can you find our treasure?				
Team Members:				
Receiver # You need to find waypoint #				

#### **Teacher Information**

#### **GPS Hide & Seek**

#### Materials:

( come

GPS receivers – 1 per group of 2-3 students Containers (plastic eggs, boxes, black film canisters, etc.) for each group Treasures for each container (small toys, tattoos, erasers, stickers, candy, etc.) Copies of the student worksheet Pens or pencils

#### Overview:

During this activity students learn how to mark waypoints and determine their latitude and longitude. The students also learn how to use the GO TO command to find a waypoint and receive a treasure as a reward.

#### **Directions:**

- 1. Assign numbers to each of the receivers as well as the containers they will hide.
- 2. Prepare for the challenge by stashing treasures in each of the containers. Be sure to provide enough so each person in the group will have a treasure to keep. You will also need to turn on the GPS receivers and allow time for them to pick up the satellite signals.
- 3. Give each group a receiver, a container with the treasures, and a worksheet. Make sure the numbers on the receivers and containers match.
- 4. Go over the directions in Part 1 on the student worksheet and specify the area(s) where the students can roam to find hiding spots as well as the location that will be considered home base.
- 5. Allow time for the students to hide their treasures and complete the information on the worksheet. Students need to return to the home base when they are done.
- 6. When all groups have returned, pass out the receivers and the "Can you find our treasure?" slips. Go over the directions in Part 2 on the student worksheet and allow time for the groups to find their treasures. Remind the groups that they must find the treasure with the same number as their receiver.
- 7. After all the groups have returned from treasure hunting, discuss any difficulties the teams had finding the treasures.

NOTE: We did this activity at our local wildlife refuge with teams of 5th and 8th grade students. The 8th grade students had learned how to mark waypoints and use the GO TO command prior to the field trip and were able to share their knowledge by teaching the 5th graders during the activity.

MVP: Social Studies Games



#### **COUNTRY BINGO**



It's bingo time! Fill in each box of your bingo card with one of the cities listed below. Then listen for your teacher to call out its country. Look up the country on the world map to locate the capital city of that country.

If you have that city written on your bingo card, mark the square. Call out, "Bingo," if you mark five squares in a row vertically, horizontally, or diagonally.

Amsterdam	Colombo	Lisbon	Pyongyang	Tirana
Athens	Copenhagen	London	Rome	Tokyo
Berlin	Dublin	Manila	San Francisco	Ulaanbaatar
Bern	Hanoi	Moscow	Sarajevo	Vienna
Beijing	Helsinki	New Delhi	Singapore	Vientiane
Bucharest	Hong Kong	New York City	Skopje	Vilnius
Budapest	Katmandu	Oslo	Stockholm	Warsaw
Chicago	Kiev	Paris	Taipei	Yerevan
			•••••••••	_

В	N	G	0
		· · · · · ·	
- 1 1			

#### **COUNTRY BINGO**

Amsterdam Colombo Lisbon **Pyongyang** Tirana Athens Copenhagen London Rome Tokyo Berlin Dublin Manila San Francisco Ulaanbaatar Bern Hanoi Moscow Sarajevo Vienna Beijing Helsinki New Delhi Singapore Vientiane **Bucharest** Hong Kong New York City Skopje Vilnius **Budapest** Katmandu Oslo Stockholm Warsaw Chicago Kiev **Paris** Taipei Yerevan

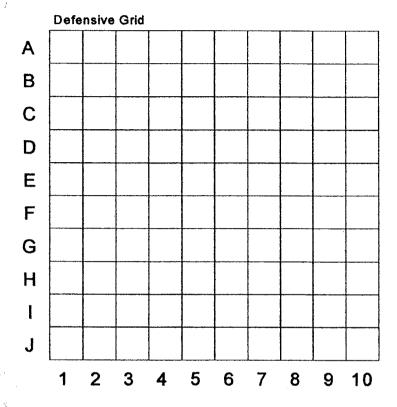
City **Country Continent** Amsterdam Netherlands Europe Athens Greece Europe Berlin Germany Europe Bern Switzerland Europe Beijing China Asia **Bucharest** Romania Europe **Budapest** Hungary Europe Colombo Sir Lanka Asia Copenhagen Denmark Europe Dublin Ireland Europe Hanoi Vietnam Southeast Asia Helsinki **Finland** Europe Hong Kong Hong Kong Asia Katmandu Nepal Asia Kiev Ukraine Europe Lisbon **Portugal** Europe London **England** Europe Manila **Philippines** Southeast Asia Moscow Russia Asia New Delhi India Asia Oslo Norway Europe **Paris** France Europe **Pyongyang** North Korea Asia Rome Italy Europe Sarajevo Bosnia-Herzegovina Europe Singapore Singapore Southeast Asia Skopje Macedonia Europe Stockholm Sweden Europe Taipei Taiwan Asia Tirana Albania Europe Tokyo Japan Asia Ulaanbaatar Mongolia Asia Vienna Austria Europe Vientiane Laos Laos Vilnius Lithuania Europe Warsaw **Poland** Europe Yerevan Armenia Asia

Additional Cities: Chicago, New York City, San Francisco

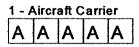
#### Battleship

Another fun activity from:

#### www.funorama.com



Put the following ships on your defensive grid by placing the appropriate letters — horizontally, vertically or diagonally.



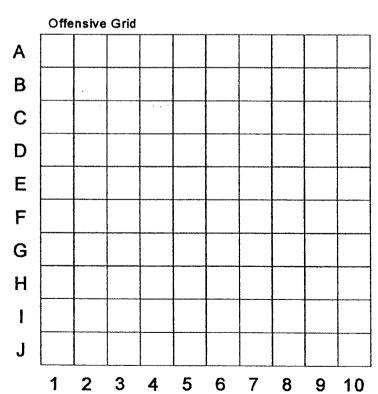
1 - Battleship B B B B

1 - Cruiser

2 - Destroyers

D	D





#### Instructions (2 Players Required):

Both players place their ships on the defensive grid according to the chart above. Whoever goes first calls out a position (i.e. G-6). The other player says either "Hit" or "Miss" depending upon whether one of his ships is in the position called out. The person calling out should mark a hit or a miss on the "offensive grid" to keep track of the shots. The other person should mark the shot on the "defensive grid". If the shot is a "Hit", the player goes again-otherwise the other player takes a turn. Once the opposing player has scored a hit on all of the spaces for a particular ship, you must call out "Hit...you sunk my Cruiser" (or whatever type of ship it was). Once a player has sunk all the opponents ships, he is declared the winner.

#### STRANGE SIGHTINGS

Strange and exotic creatures lurk in the continents of Asia, Africa, North America, South America, Antarctica, Europe, and Australia. Some have been sighted swimming in the Pacific, Atlantic, Indian, and Arctic oceans. How many of these creatures can you collect?

#### SKIEL

Identify and locate the seven continents and four oceans

#### PZAMENS

2

#### MATEREAS

- Strange Sightings Game Board
- Creature Figures
- True-or-False Cards
- Spinner







#### HOW TO BLAY

- Place each Creature Figure in the appropriate continent or ocean. Stack the True-or-False cards facedown within easy reach of both players.
- 2. Take turns spinning the spinner and following the directions on the spinner. If the spinner lands on "True or False," the other player draws a card from the stack and reads the statement written on it. Decide whether the statement is true or false. (Answers are at the bottom of the card.) If you answer correctly, take a Creature from the game board. If not, the other player reads aloud the correct answer and returns the card to the bottom of the pile. The other player takes a turn.
- Play continues until all the Creatures have been taken from the board. The player with the most Creatures wins.

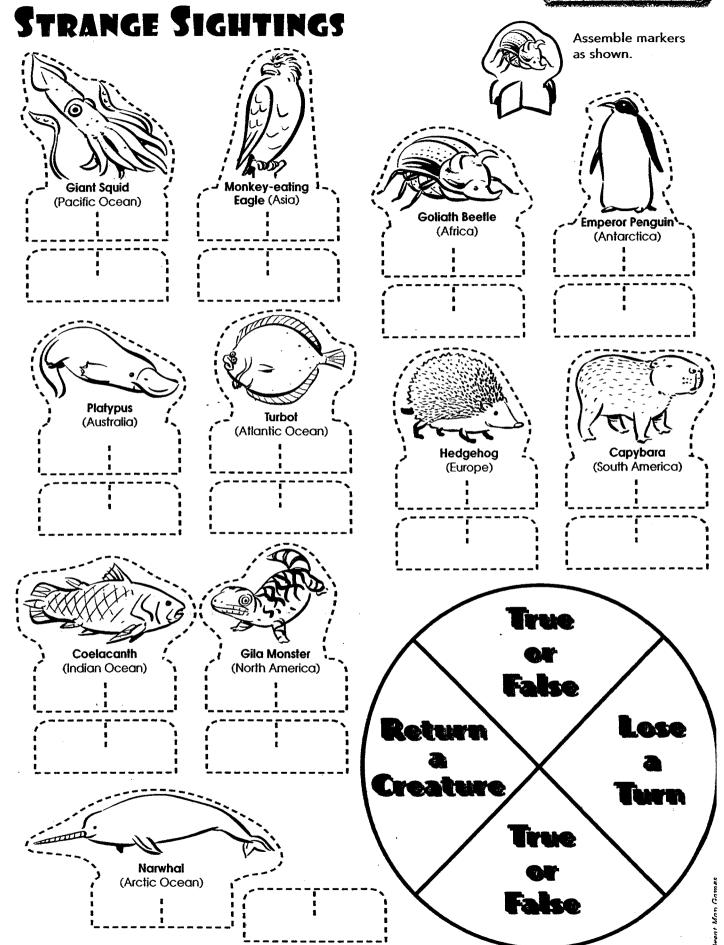


EXTENSION:

Do sex and about the animals (catured in this game) fundance esting (actual) as a substitute of the su

TRANGE

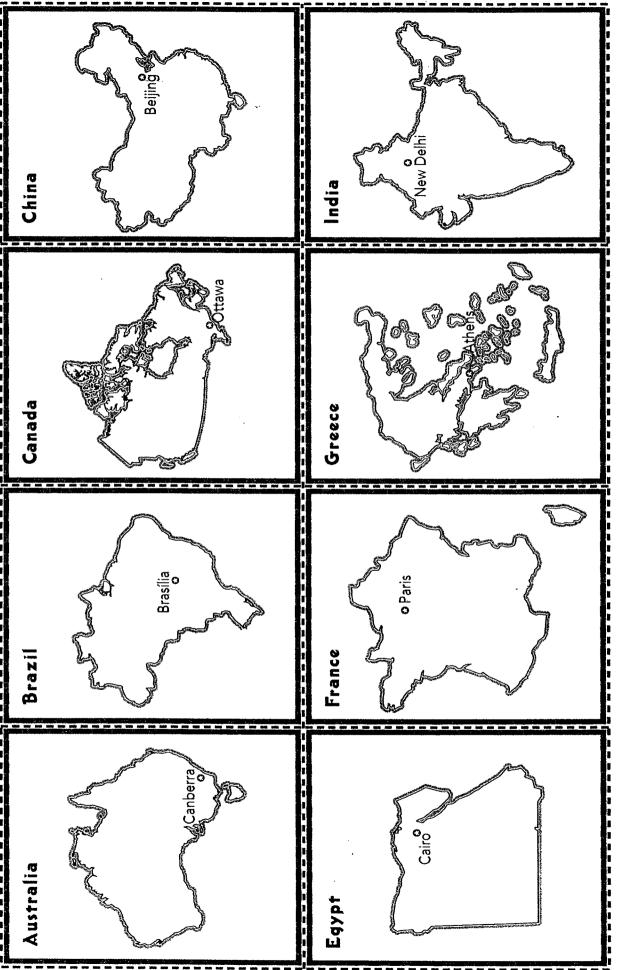
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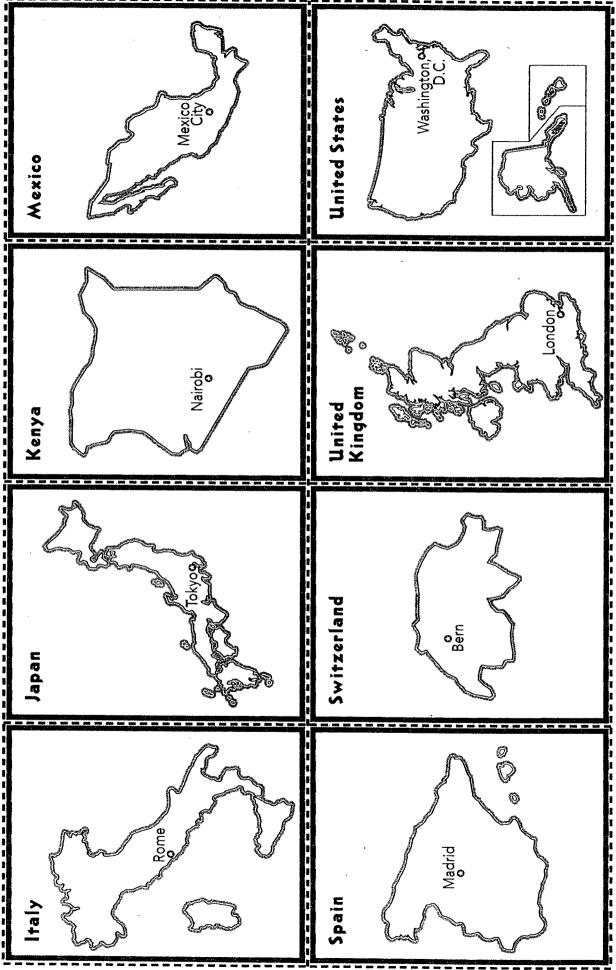
#### STRANGE SIGHTINGS

1			I
1 1 1	Continents are the largest landforms.	There are four major continents.	The largest continent is Antarctica.
	(True)	(False. There are seven continents.)	(False. Asia is the largest continent.)
	Antarctica is a desert.	Australia is the only country that is also a continent.	Europe is the smallest continent.  (False, Australia is the
1	(True)	(True)	smallest continent.)
	North America is the third-largest continent.	Mexico and the United States are part of South America.	South America is the second-largest continent.
	(True)	(False. Mexico and the U.S. are part of North America.)	(False. South America is the fourth-largest continent; Africa is the second.)
	Europe is a continent between the Atlantic Ocean and Asia.	Africa has the world's largest desert.	Oceans are the largest bodies of water.
•	(True)	(True)	(True)
	There are seven oceans.	Oceans are made of salt water.	The largest ocean is the Pacific Ocean.
	(False. There are four oceans.)	(True)	(True)
	Water covers half of the Earth's surface.	The Arctic is the shallowest and smallest ocean.	The Pacific and Indian oceans surround Africa.
ent man or	(False. Water covers 3/4 of the Earth's surface.)	(True)	(False. The Atlantic and Indian oceans surround Africa.)

(17)



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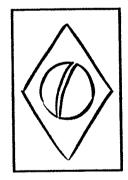


## Australia

Continent: Australia Capital: Canberra

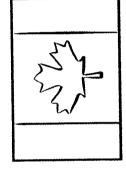
Currency: Australian Dollar Famous Landmark: Sydney Official Language: English Opera House

River



### Brazil

Official Language: Portuguese Famous Landmark: Amazon Continent: South America Currency: Cruzeiro Real Capital: Brasília



S C C

## Canada

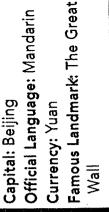
China

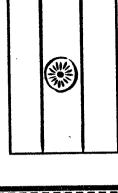
Continent: Asia

Official Languages: English and Continent: North America Capital: Ottawa

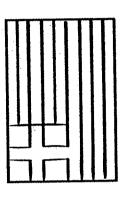
Famous Landmark: Niagara Falls Currency: Canadian Dollar

French

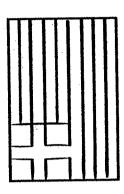




### India



Currency: Drachma Continent: Europe Capital: Athens Acropolis



Official Language: Greek Famous Landmark: The

Famous Landmark: The Eiffel

Tower

Official Language: French

France

Egypt

S)

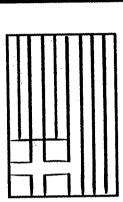
Continent: Africa

Capital: Cairo

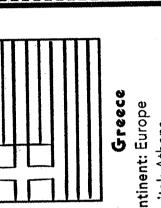
Continent: Europe

Capital: Paris

Currency: Franc and Euro



Famous Landmark: The Taj Mahal Official Languages: Hindi, Currency: Indian Rupee English, and Sanskrit Capital: New Delhi Continent: Asia



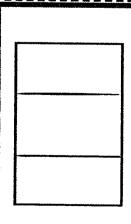
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Famous Landmark: The Great

Currency: Egyptian Pound

Official Language: Arabic

Pyramids



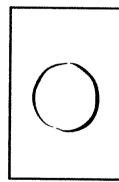
### Italy

Continent: Europe Capital: Rome

Official Language: Italian

Currency: Lira and Euro Famous Landmark: The

Colosseum



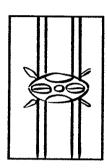
### Japan

Continent: Asia Capital: Tokyo Official Language: Japanese

Currency: Yen

Famous Landmark: Mt. Fuji

National Park



## Kenya

Continent: Africa

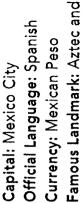
Capital: Nairobi

Continent: North America

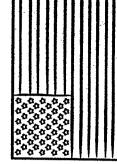
Mexico

Official Languages: Swahili and English

Famous Landmark: Amboseli Currency: Kenya Shilling



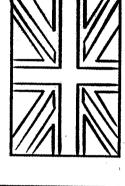
Maya Ruins



## United States

Continent: North America Capital: Washington, D.C. Language: English

Famous Landmark: The Statue Currency: U.S. Dollar of Liberty



# United Kingdom

Currency: Pound Sterling Continent: Europe Language: English Capital: London

Official Languages: German,

Official Language: Castilian

Spanish

Currency: Peseta and Euro

Famous Landmark: Port of

Switzerland

Spain

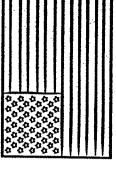
Continent: Europe

Capital: Madrid

Continent: Europe

Capital: Bern

Famous Landmark: Big Ben



# Matterhorn Barcelona

Famous Landmark: The Currency: Swiss Franc French, and Italian