Direction

North, South, East and West denotes parts of the world that are also used to signify cardinal (compass) direction (heading) with respect to geographic coordinate system. Sense of geographic space and direction is one of the essential life skills.

Helper's Guide

Answers to Learning by Doing exercises:

- 2. Example countries:
 - a. Northern and western:

 b. Northern and eastern:

 c. Southern and western:

 d. Southern and eastern:

 USA

 Ukraine

 Brazil

 Australia
- 3. For Nebraska:
 - a. Northern or southern
 - b. Eastern or western
- 4. For Nebraska:

a.	North	South Dakota		
b.	East	Iowa and Missouri		
c.	South	Kansas and Colorado		
d.	West	Colorado and Wyoming		

5

North / South		East / West	
North	and	East	with respect to California
North	and	West	with respect to Florida
South	and	East	with respect to Washington
North	and	East	with respect to Arizona
	North North South	North and North and South and	North and East North and West South and East

6.

Flying from:	Heading (words)	Heading (°)
California to New York	North North East	22.5°
Florida to Colorado	North West	315°
Washington to Texas	South East	135°
Arizona to Ohio	East North East	67.5°

Need to Emphasize

- Direction is important when relating different objects in space.
- Geographic direction can be expressed in words and numbers.
- Although the concept is the same, angular representation of direction is different from the traditional representation of an angle in polar coordinates that mathematicians use.

Activity 03

Related Links

http://en.wikipedia.org/wiki/Cardinal_direction

Viacheslav Adamchuk and Shana Thomas Phone: 402-472-8431 E-mail: vadamchuk2 @unl.edu Last updated: May 12, 2008

Activity 03