



## LESSON PLAN

# Math Around the World

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Topic: **Time Zones** | Grade Level: **Middle School**  
Subject: **Math** | Time: **45–55 minutes**

### OBJECTIVE(S):

Students will learn about the time zones of the six countries now featured on the MilitaryKidsConnect.org website, and will explore the challenges created by time zone differences between a military family's home city and the deployed parent's location.

### MATERIALS NEEDED:

- *Where Are You Going?* activity on the MilitaryKidsConnect.org website
- "Time Zone Differences Worksheet" and "Time Zone Word Problems Worksheet"
- Go to "Related Materials" in on-line version of this lesson plan to access all required links: [www.militarykidsconnect.org/p/lp/mid](http://www.militarykidsconnect.org/p/lp/mid)

### OTHER RESOURCES REQUIRED:

- Computer with classroom display and Internet access

## LESSON

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### Suggested Activity Set-up and Discussion (10 minutes)

- Teacher accesses the Tweens home page on MilitaryKidsConnect.org, which contains some up-to-the moment information on Afghanistan. Ask students:
  - If anyone can find the current time in Afghanistan (it is located in the center top of the page, which says "Right now in Afghanistan it is *day of week, military time*).
  - If anyone can provide a definition of military time (*time measured from midnight to midnight, for a 24-hour clock*).
  - What the time difference is between Afghanistan and their home community.
- Explain to students that within the *Where Are You Going?* activity, MilitaryKidsConnect.org features six countries to which members of our military services might be deployed: Afghanistan, Djibouti, Iraq, Panama, Philippines, and South Korea.
- Distribute the "Time Zone Differences Worksheet" and the "Time Zone Word Problems Worksheet."
- Student assignments (for multiple class periods):
  - Research the time zone differences between their home community and each of the deployment countries
  - Think about and write down their thoughts about some of the challenges that can arise when a family is in one time zone, and a deployed parent is in another
  - Create two word problems that involve time zone differences, which the teacher will assign to another student to solve

# WORKSHEET

## Time Zone Differences

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

Calculate the time difference between where you live and each of these deployment countries. Indicate whether the country is *behind us* (-) or *ahead of us* (+)

<b><u>Country</u></b>	<b><u>Time Difference (- or + hours)</u></b>
Afghanistan	
Djibouti	
Iraq	
Panama	
Philippines	
South Korea	

List five challenges that might be created by having a family in one time zone and a deployed parent in another.

- 1.
- 2.
- 3.
- 4.
- 5.

Which of the deployment countries do you think would pose the greatest time zone challenge?  
Which one the least?

# WORKSHEET

## Time Zone Word Problems

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

### Directions:

- Create two (*challenging!*) time zone word problems for one of your classmates to solve.
- Here's an example:

Jim lives in Iraq. His twin brother, Tim, lives in the Philippines. Their grandmother is in New York and wants both boys to call her at 2:00 p.m.

At what time will Jim have to call? \_\_\_\_\_

At what time will Tim need to call? \_\_\_\_\_

### Word Problem #1:

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### Answer:

### Word Problem #2:

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### Answer: