

## Lesson Plan

### Midway Math

**Book:** The Battle of Midway

**Series:** Major Battles in US History

**Level:** Navigator

### Objective

To help students practice locating and recalling specific details (including details within graphs and infographics) and using those details to infer or calculate additional facts.

### Supplies

- *The Battle of Midway*
- Midway Math worksheet (attached)
- Pencils

### Before the Activity

Read through *The Battle of Midway*, or assign it to the students to read on their own. Split the students into groups of two or three. Print a Midway Math worksheet for each group.

### Activity

Give each group of students a Midway Math worksheet. The students in each group should work together to fill out the worksheet. Remind the students that some of the answers can be found directly in the text, but other answers must be calculated or inferred using other numbers found in the book. Also remind the students to make sure that each group member writes his or her name at the top of the worksheet. Collect the worksheets at the end of the activity.

### Evaluation

Using the attached answer key, give the students 1 point for each question they answer correctly, for a total of 15 points.

### Standards

This lesson may be used to address the Common Core State Standards' reading informational texts standards, grade 4 (RI 4.1; RI 4.7).

## Midway Math

Write the answers to the following questions. Some answers can be found directly in the book. For others, you will need to use facts from the book to calculate the answers.

1. How many US aircraft carriers did Chester Nimitz bring to Midway?
2. Which of these US carriers survived the Japanese attacks?
3. How many torpedo bombers were sent out from the USS *Enterprise*?
4. By 10:20 a.m., how many of these torpedo bombers were left?
5. How many dive-bombers did the USS *Enterprise* send out?
6. What was their altitude at the beginning of the battle?
7. How much lower were they when they released their bombs?
8. How many aircraft carriers did Japan have at the beginning of the battle?
9. Which carriers were sunk in the first round of US attacks?
10. What percentage of Japan's carriers were left after this first round of attacks?
11. How many airplanes did Japan's carrier the *Hiryu* have on board?
12. How many airplanes could all Japan's carriers hold if each carrier held this many airplanes?
13. How many ships and airplanes did the United States lose during this battle?
14. How many ships and airplanes did Japan lose?
15. Which country lost more airplanes? How many more airplanes did that country lose?

## Midway Math (ANSWER KEY)

1. How many US aircraft carriers did Chester Nimitz bring to Midway? **Three carriers (the Yorktown, Enterprise, and Hornet)**
2. Which of these carriers survived the Japanese attacks? **Two carriers (the Enterprise and Hornet)**
3. How many torpedo bombers were sent out from the USS *Enterprise*? **14 torpedo bombers**
4. By 10:20 a.m., how many of these torpedo bombers were left? **Four torpedo bombers were left (ten were shot down)**
5. How many dive-bombers did the USS *Enterprise* send out? **32 dive-bombers**
6. What was their altitude at the beginning of the battle? **20,000 feet or 6,700 m**
7. How much lower were they when they released their bombs? **18,500 feet or 6,250 m lower (they released the bombs at 1,500 feet or 450 m)**
8. How many aircraft carriers did Japan have at the beginning of the battle? **Four**
9. Which carriers were sunk in the first round of US attacks? **The Akagi, Kaga, and Soryu**
10. What percentage of Japan's carriers were left after this first round of attacks? **25 percent (only 1 carrier, the Hiryu, was left)**
11. How many airplanes did Japan's carrier the *Hiryu* have on board? **73**
12. How many airplanes could all Japan's carriers hold if each carrier held this many airplanes? **292**
13. How many ships and airplanes did the United States lose during this battle? **Two ships (one carrier and one destroyer) and 145 airplanes**
14. How many ships and airplanes did Japan lose? **Five ships (four carriers and one heavy cruiser) and 292 airplanes**
15. Which country lost more airplanes? How many more airplanes did that country lose? **Japan lost 147 more airplanes**