

Teacher:

**Subject / Course:** Math

Date:

**Unit Title:** Mississippi Football Mania. Can be used in centers as review of addition, subtraction, and multiplication word problems.

Grade:

**Duration:** 20–30 minutes

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## CCRS:

### Math:

- 4.OA.A.3** Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or subject area.
- 4.NF.B.3.A** Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience.
- 4.MD.A.2** With guidance and support from peers and adults, develop and strengthen writing as needed by planning, revising, and editing.

### Summary of Unit:

**Math-basic operation word problems.** Use handout to solve math problems related to football after a discussion of Mississippi athletes poster.

### Lesson Objectives:

- Solve multi-step word problems
- Add fractions
- Add, subtract, multiply whole numbers

### Lesson Structure:

- The teacher will show students the *Mississippi, Believe It!*<sup>TM</sup> poster of famous football players to introduce the lesson.
- The teacher will use the Basics of Football activity to introduce football and the basics of the game to help students who may not have background knowledge.
- The students will have whole group or small group discussion on football terms.
- The football handout can be used as an example. This can be done as whole group instruction or used as an example handout in centers.
- Students will complete the Mississippi Football Mania handout. This can be completed independently or in small group. This can be used as an assessment.
- The Extended Activity can be used in centers or after students have completed the Mississippi Football Mania handout independently.

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## Guiding Questions:

1. Name vocabulary terms that relate to football.
2. What key words help you solve a math word problem?
3. What are the different ways to show how to solve a problem with fractions?
4. What strategies can you use to solve word problems?
5. How are feet and yard measurements related?

## Activities:

**Basics of Football:** Remind students of the lesson on famous football players. Ask students to list things they know about football and how it is played. (Gain of yards – add the amount, loss of yards – subtract the amount, touchdown – a score worth 6 points, pass – throwing a football, quarter –  $\frac{1}{4}$  of the football game). As these are listed on the board, discuss the basics so the students have knowledge to complete the handout.

**Example Activity:** Show Football handout on the board (or make copies based on student needs). The teacher can work the problem to show students how the Basics of Football activity relates to math. This can be left on the board or at the center workstation for students to use as an example.

**Extended Activity:** This can be used with higher-level students or students that finish tasks quickly. Students can use the Mississippi Football Mania handout to solve more difficult math problems. Remind students that there are 3 feet in 1 yard. The teacher can give more examples (if needed: 2 yards = 6 feet, etc.). Have students rework problems #1, #5, #6, and #8.

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**Key Vocabulary:**

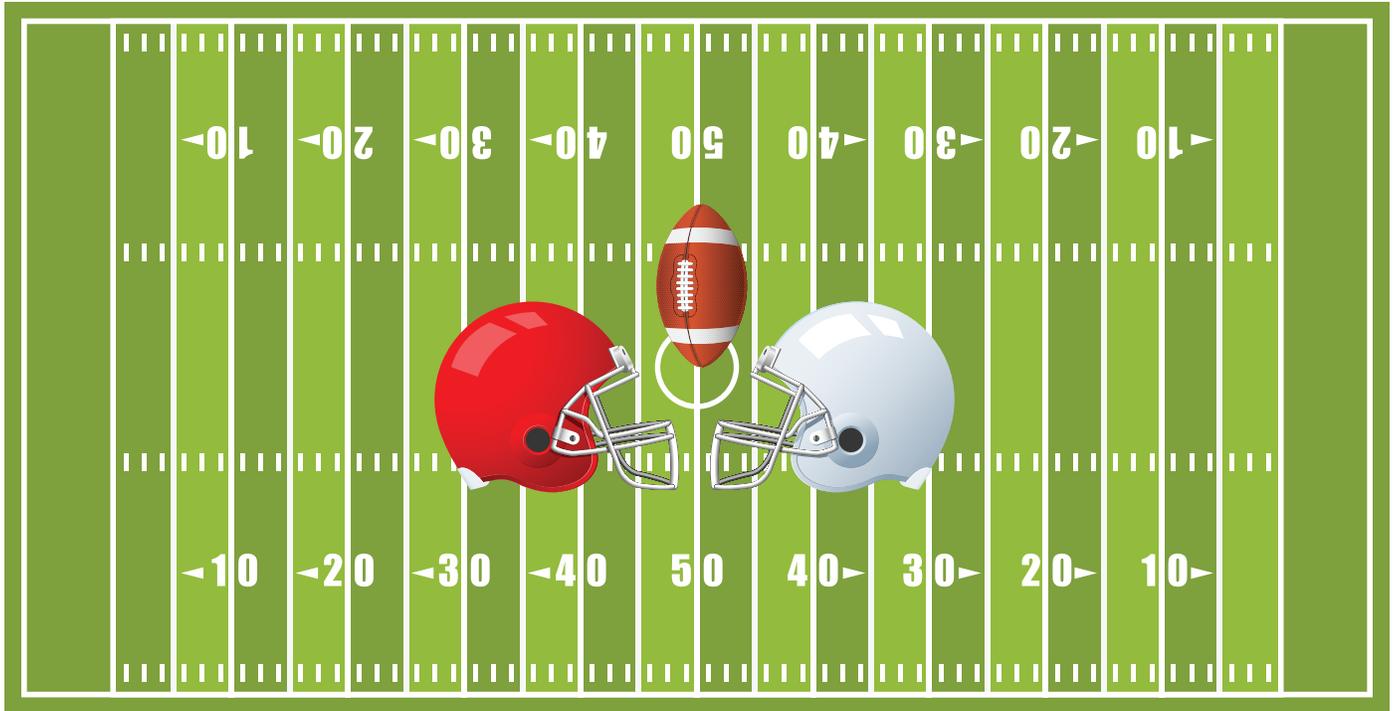
- Gain
- Loss
- Total
- In all
- Each
- Yard

**Resources & Materials**

- Whiteboard
- Charts/Maps
- Computer
- Smartboard
- Video/Audio
- Textbook Pages
- Workbook Pages
- Handout
- Manipulatives
- Other:

**Assessments:**

- Pre-Test
- Post-Test
- Observation
- Oral
- Writing Assessment
- Journal
- Homework
- Demonstration
- Other:



Mississippi State University's football team ran three plays. In the first play, they gained 10 yards. In the second play, the team lost 5 yards. In the third play, they gained 27 yards.

**How many yards did Mississippi State University have after the three plays?**



Solve the problem:

1. Walter Payton gained 4 yards in three separate plays. How many yards did he gain in all?
2. Alcorn State University and Jackson State University are playing each other in a game. Each team has 11 players on the field. How many players are on the field during the game for both teams?
3. Jerry Rice made 4 touchdowns during the game. If a touchdown is worth 6 points, how many total points did he score?
4.  $\frac{3}{8}$  of Southern Miss's football team drank a sports drink during half time.  $\frac{4}{8}$  of their team drank a sports drink after the game. What is the total amount of Southern Miss's team that drank a sports drink during and after the game?
5. Eli Manning threw a football for 42 yards and lost 15 yards because of a penalty. How many yards does his team gain?
6. The Delta State University football team made three plays. In the first play, they gained 51 yards. In the second play, the team lost 12 yards. In the third play, they gained 17 yards. How many yards did Delta State have at the end of the three plays?
7. The game between Jackson State University and Mississippi Valley had 1 minute and 45 seconds left to play. 15 seconds passed during the first play. How much time is left on the clock now?
8. Mississippi State University scored 12 points in the first quarter. They scored 6 more in the second quarter. Then, they scored 24 points in the third quarter. At the end of the game, they scored a total of 52 points. How many points did Mississippi State score in the fourth quarter?

Solve the problem:

1. Walter Payton gained 4 yards in three separate plays. How many yards did he gain in all?

$$4 \times 3 = 12$$

2. Alcorn State University and Jackson State University are playing each other in a game. Each team has 11 players on the field. How many players are on the field during the game for both teams?

$$11 \times 2 = 22$$

3. Jerry Rice made 4 touchdowns during the game. If a touchdown is worth 6 points, how many total points did he score?

$$4 \times 6 = 24$$

4.  $\frac{3}{8}$  of Southern Miss's football team drank a sports drink during half time.  $\frac{4}{8}$  of their team drank a sports drink after the game. What is the total amount of Southern Miss's team that drank a sports drink during and after the game?

$$\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$$

5. Eli Manning threw a football for 42 yards and lost 15 yards because of a penalty. How many yards does his team gain?

$$42 - 15 = 27$$

6. The Delta State University football team made three plays. In the first play, they gained 51 yards. In the second play, the team lost 12 yards. In the third play, they gained 17 yards. How many yards did Delta State have at the end of the three plays?

$$51 - 12 + 17 = 56$$

7. The game between Jackson State University and Mississippi Valley had 1 minute and 45 seconds left to play. 15 seconds passed during the first play. How much time is left on the clock now?

$$1 \text{ min } 45 \text{ sec} - 15 \text{ sec} = 1 \text{ min } 30 \text{ sec}$$

8. Mississippi State University scored 12 points in the first quarter. They scored 6 more in the second quarter. Then, they scored 24 points in the third quarter. At the end of the game, they scored a total of 52 points. How many points did Mississippi State score in the fourth quarter?

$$12 + 6 + 24 = 42 \quad 52 - 42 = 10$$