

SUPER BOWL _____ MATH ACTIVITY PACKET

Your Name _____

Due Date: _____



Since this is Super Bowl Week, you will be asked to keep your eyes and ears open so that you can see how heavily influenced this game is with math facts and statistics. You have been given some pertinent information in class having to do with statistics from *The Guinness Book of World Records*, and your notes can be helpful to you for some of the information below.

You may find the answers to these questions by **watching the television, listening to the radio, looking at the newspapers and magazines, or just by asking people who already have the information.** Of course, many things may be learned by just **looking at the Super Bowl itself on Sunday.**

Everyone is to answer as many questions as possible. Some questions can be answered right now, while others will need to wait until during, or even after, the game ends. Don't get stressed if you can't find an answer. Just do your best. Try to make this a fun, fact-finding mission and get everyone looking for answers. We'll discuss our findings when we return to school the day after the Super Bowl.

You will be evaluated on how many activities you have completed independently, the neatness of your work, the effort you put into your activities, and the quality of your work.

SUPER BOWL MATH PACKET PRE-GAME ACTIVITIES

Score Prediction:

NFC Champions _____

AFC Champions _____

1. How many Super Bowls have there been? _____
2. What was the *point spread* predicted before the game began? _____
3. How much is airfare from your city to the Super Bowl city? _____
4. How many miles is it from your city to the Super Bowl? _____
5. How many miles are between the two Super Bowl Champions' cities? _____
6. If an average hotel room in the Super Bowl city is \$200.00 per night, how much would it cost two families, each with its own room, to spend three days and nights there? _____
7. If it cost a person on the average \$30.00 a day for food in the Super Bowl city, how much would it cost two adults to eat three meals a day for three days? Show your calculations. _____

8. Give the names, numbers, and positions of two offensive players and two defensive players of your favorite superbowl team. _____

9. How much money does the Super Bowl ring cost that every player receives for his participation in this game? _____

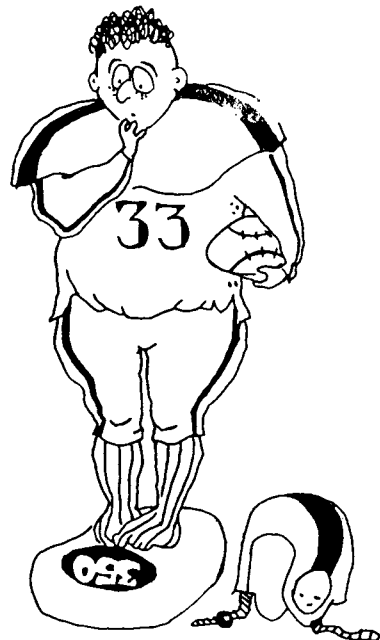


10. How much money will a Super Bowl player earn if he is on the winning team? _____
11. If 50,000 people each buy one soda (\$2.50) and one hot dog (\$3.00) at the Super Bowl, what is the total amount spent by all of these people for food?

SUPER BOWL MATH PACKET, *continued*

12. How many feet high is the goal post? _____
13. Using the facts given to you in class or by looking them up in the encyclopedia under *football*, find the perimeter and area of the football field. Perimeter: _____ Area: _____
14. Write the first 50 Roman Numerals: _____

15. What is the number in Roman Numerals of this Super Bowl? _____
16. What is the width and length of the football? _____
17. What geometric shape is a football? _____
18. What is the name of the Super Bowl stadium? _____
19. What is the face value of a Super Bowl ticket? _____
20. How are Super Bowl tickets distributed? _____
21. How many tickets is each player allocated? _____
22. How much is the airfare from the home city of the NFC champions to the home city of the AFC champions? _____
23. Take a survey of 10 to 15 friends and family members of all ages before the game to find out who they predict to win. Make a chart to show the results.
24. Find out the height and weight of five football players in this Super Bowl. Write their names and their vital statistics.



SUPER BOWL MATH PACKET, *continued*

25. Create three math questions for your classmates using information about the Super Bowl that you have acquired through your pre-game research. At the end of each question, write the correct answer upside-down. _____

DURING-THE-GAME ACTIVITIES

1. What is the score of the Super Bowl game at the end of each of the following times?

Quarter 1: _____

Quarter 2: _____

Quarter 3: _____

Quarter 4: _____

2. What is the temperature (Fahrenheit and Centigrade) at game time in the city where the Super Bowl is being held? _____

In your city? _____

In the home city of the NFC Champs? _____

In the home city of the AFC Champs? _____

3. How many people actually are in attendance at this year's Super Bowl?

SUPER BOWL MATH PACKET, *continued*

4. How many people will the Super Bowl stadium actually hold? _____
5. How much did it cost to advertise for one minute of time during the Super Bowl? _____
6. What companies did the most advertising during the game? _____
7. What was the face value of the Super Bowl ticket? _____
8. How many touchdowns were made by each team? _____
NFC Champs: _____ AFC Champs: _____
9. What was the aggregate score of this year's Super Bowl? _____
10. Did the score of this game make any records as far as the greatest or narrowest *victory margin*? _____
11. Give the name and team name of the *heaviest person* mentioned during the game. _____
The *tallest person*. _____
12. Listen to the ages of the players mentioned. Who is the oldest and what position does he play? _____
13. Which AFC and NFC player has played in the most Super Bowls counting this one? _____
14. What time does the Super Bowl begin in Super Bowl city? _____
In your city? _____
In the home cities of both the NFC and AFC Champs? _____
15. Which professional team has won the Super Bowl the most times? _____
How many times? _____
16. Using a stopwatch or second hand on your watch, time one commercial break. List each advertiser, and the number of seconds each used for commercial time. Using the amount of one million dollars per minute, figure out how much each commercial segment cost the advertiser. _____

SUPER BOWL MATH PACKET, *continued*

Compare the two teams in the categories below:

	AFC Champs	NFC Champs
Yards Rushing		
Yards Passing		
Yards Penalized		
Sacks		
Pass Completions		
Time of Possession		

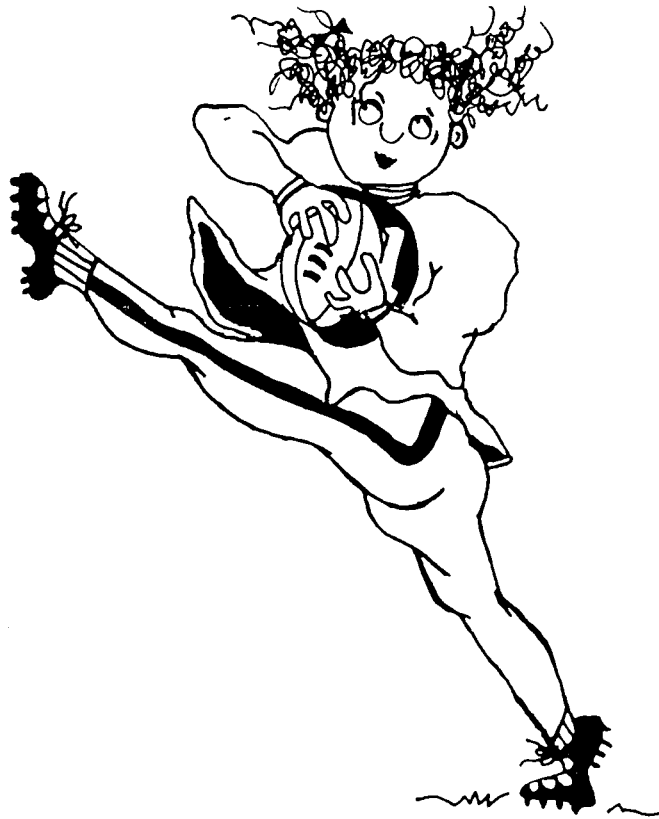
POST-GAME ACTIVITIES

(Two required)

1. Create a collage (9 inches by 12 inches) on construction paper showing how math is used in the Super Bowl.
2. Write a paragraph ($\frac{1}{2}$ to 1 full page) telling how math has been used in the Super Bowl. Attach it to your collage.
3. Make a list of at least five other math-related facts you have learned about having watched the Super Bowl, or from reading or listening to news programs.
4. Plan a menu for a Super Bowl Party. Tell what you would buy and how much it would cost totally. You may want to use the food section of the newspaper to help you out. Show a picture of what you want and how much it will cost.
5. Draw a map of the United States. Locate your city of residence, and the city where the Super Bowl is being played, and the two cities where the championship teams are located. Label them.
6. Write a paragraph describing one of your favorite commercials you saw during the Super Bowl. Tell why you think it was worth the company's money to run it.
7. Write a paragraph telling why so many people have Super Bowl parties and what the benefits are to the people who attend.
8. Interview a person who went to the Super Bowl. Tell what he/she thought were the high points of the trip and get an estimate of how much the trip cost. Ask questions about the Super Bowl city, the fans, the stadium, the weather, traffic, etc.

SUPER BOWL MATH PACKET, *continued*

9. Write a paragraph telling which Super Bowl team is your favorite and why you like it.
10. Draw illustrations of each team's football jerseys. Use color.
11. Write a paragraph about the halftime show. Be complete in your detail.
12. Make up a word search with the teams in the NFL. Have someone try to locate each with a highlighter.
13. Scramble up to 15 Super Bowl words (for example: rtreaackqb = quarterback). Have a partner unscramble them.
14. On a map of the United States locate 15 pro football team cities. Show where they are and label them.
15. Make up your own idea to show how math is important to the Super Bowl.



SUPER BOWL MATH PACKET SELF-EVALUATION

Finish your answers on the back of this sheet if you run out of space.

1. What did you enjoy most about this Super Bowl math project? _____

2. What did you learn by doing it? _____

3. How did you go about finding the answers to these questions? _____

4. Did anyone help you find answers? _____
Who? _____
How did that person(s) help? _____

5. How much time do you think you put into completing this packet? _____

6. What was the most difficult part of this activity? _____

7. How would you improve this math activity? _____

8. If you were going to give yourself a grade on this packet, what would you give yourself? Explain your answer for your teacher. _____

