

GROUP PRACTICE TEST - UNIT 1

NAME _____

DIRECTIONS: You may use your notes for this test, but you may NOT copy anything from another's paper. You may, however, explain how to do a problem to your group members, and you may call me over for a hint for any problem. Your grade on this will be based on a combination of your own work and your group members' work, so make sure EVERYBODY in your group understands the problems thoroughly. Make sure you show all the work for full credit. When your group is done, staple all papers together properly with one staple. To show that you are reading these directions, write "show all work in capital letters across the top of the page.

Each question is worth 4 points, but because this is a practice test you can only receive $\frac{1}{2}$ of those points, so this practice test is worth 28 points for you.

FALL AND FOOTBALL

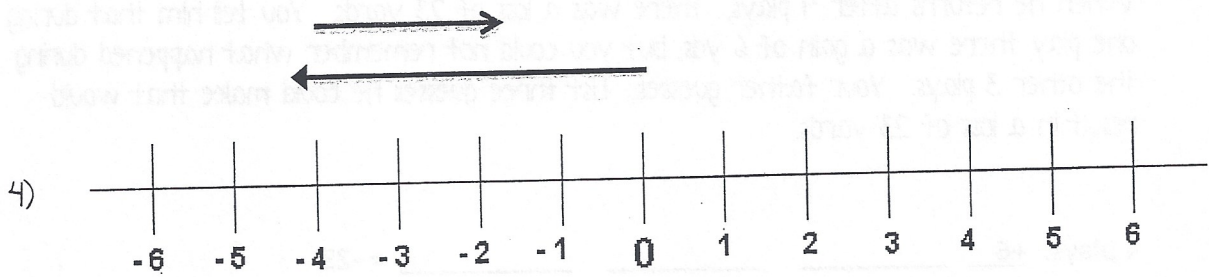
PART I : THE TICKETS

1) Your father buys 4 Patriots tickets for a game in November in Buffalo. The tickets cost \$125.35 each. What is the total cost?

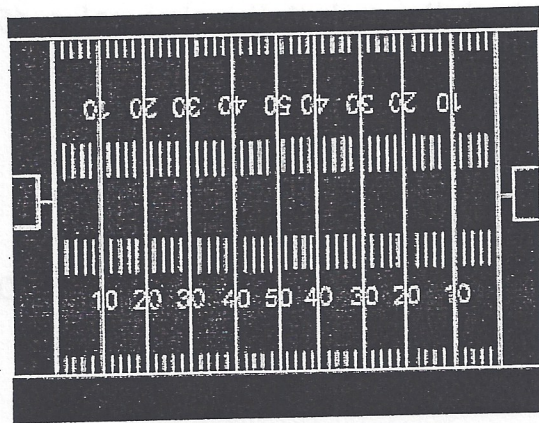
2) Your father's friend, Mrs. Cheapskate, says she will pay for $\frac{1}{5}$ of the price. How much is that?

Part II: Planning for the Game

3) Your family is trying to decide the right clothes to take for the game. In Buffalo during last year's game, the temperature was -14° in the morning. If the temperature dropped 7° before the game, what will the temperature be at game time?



The coaches are planning their plays. Write an addition equation for the play portrayed above. Then solve it. Was yardage gained or lost?



PART III : The Game.

5) Your favorite player, Larry Pronkowski, had possession of the ball four times. In one play, he gained 27 yards for the Pats. In another play, he was pushed back by the defense and lost 6 yards. In the last two plays, he gained 18 and -9 yards. What was his total yardage gained?

6) During the 2nd quarter, your dad gets a phone call and steps away from the game. When he returns after 4 plays, there was a loss of 23 yards. You tell him that during one play there was a gain of 6 yds, but you could not remember what happened during the other 3 plays. Your father guesses. List three guesses he could make that would result in a loss of 23 yards.

$$4 \text{ plays: } +6 \quad \underline{\hspace{1.5cm}} \quad \underline{\hspace{1.5cm}} \quad \underline{\hspace{1.5cm}} \quad = -23$$

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7) During the 3rd quarter play starts at the 23 yard line. The Patriots get a gain of 10 yards, but at the end of the play, got a 15 yard penalty (which results in a loss of yards). What yard line are they on now?

PART IV: Halftime

8) There it is!!! The Good Year Blimp is here. It rises at 22 ft/min. In 35 minutes, how high will it be?

9) Suddenly a bird flies into the blimp and it starts falling. It falls into a nearby lake and falls rapidly until it is 45 feet below sea level. How many feet did the blimp fall from its highest point?

PART V: The game ends

10) The Patriots win by 14 points. They score 35 points. The new league rules state that if the fans are not showing good sportsmanship, then 50 points are deducted from a team's number of points, which can be gained back in the next game. How many points do the Patriots have now because their fans were unruly?

11) The temperature went down 2° every 15 minutes from the start of the game when it was 74° . What was the temperature at the end of the $2\frac{1}{2}$ hour game?

Part VI: Think about it and respond to each question.

12) Why is taking away always like adding an opposite?

13) What is the difference between the absolute value of a number and a number's opposite?

14) When you have a long string of positive and negative integers to add up, what is a good strategy to make things more efficient?