



• Ace Your Dreams Worksheet (Middle School) •

Problem:

Ding Ning won the gold medal in table tennis. She was one of 32 players in Round 3 of the competition. Each consecutive round of table tennis, 50% of the players were eliminated. How many games of table tennis did Ding Ning win to make it to the finals if she entered the competition in Round 3?

DATE _____

How did you get your answer? Use words.

Larry says that $6\frac{1}{2}\%$ of the 32 contestants from Round 3 participate in the final game that determines who wins gold and who wins silver. Is he right or wrong?

NAME _____

Find all correct answers based on the original problem.

a) $\frac{1}{4} = \underline{\hspace{2cm}} \%$

b) $\frac{1}{8} = \underline{\hspace{2cm}} \%$

c) $\frac{1}{32} = \underline{\hspace{2cm}} \%$

The winner of a game of table tennis is the first person to have a 2 point lead with at least 11 points. What is the least number of points Ding could have scored from all of her games combined to win the final game and earn the gold medal?

