

South Dakota



**SD Counts Algebra Institute
July 15 – July 20, 2007
Dakota State University**

Exit Question for Monday, July 16, 2007



Farmer Brown sent her children to the field to count the number of horses and ducks. Her son returned with the count of nine heads, and the daughter shared the count of twenty-six legs. How many ducks and how many horses did Farmer Brown have?

Exit Question for Tuesday, July 17, 2007



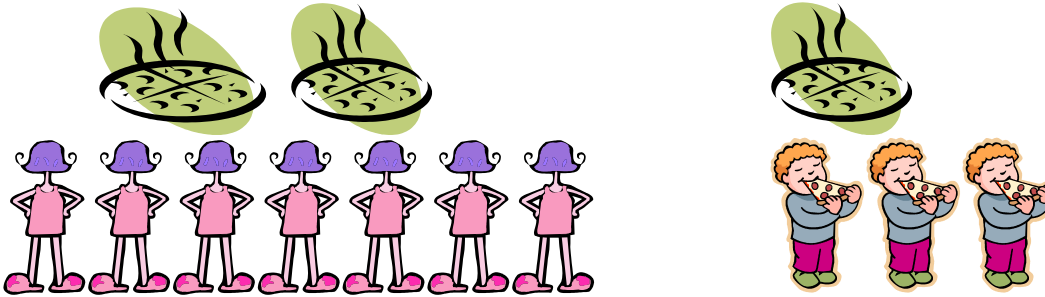
Brian is starting a summer lawn-mowing business to earn money to buy a new bike. He borrowed \$225 from his Dad to buy a lawn mower. He charges \$35 to mow the average lawn. It costs about \$2.50 for gasoline for each lawn. That means his profit for each lawn is \$32.50. How many lawns must Brian mow to pay his father back? If he wants to buy a bike for \$500, how many lawns must he mow?

Exit Question – Wednesday, July 18, 2007

- A. Ellen, Jim and Steve bought 3 helium-filled balloons and paid \$2.00 for all three balloons. They decided to go back to the store and buy enough balloons for everyone in the class. How much did they pay for 24 balloons?
- B. Dr. Day drove 156 miles and used 6 gallons of gasoline. At this rate, can he drive 561 miles on a full tank of 21 gallons of gasoline?
- C. A 6" x 8" photograph was enlarged so that the width changed from 8" to 12". What is the height of the new photograph?

Exit Question for Thursday, July 19, 2007

Here are some children and some pizzas; 7 girls share 2 pizzas equally and 3 boys share 1 pizza equally.



- A. Does each girl get the same amount as each boy? Explain or show how you got your answer.
- B. If each girl does not get the same amount as each boy, who gets more? Explain or show how you found your answer.