Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ #\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Autumn Math Puzzlers**

1. Marcella wants to fill a basket with gourds. She needs 18 gourds. Which would be a better deal for her: 4/$1.00 or $.27 each? Justify your answer.
2. Cedric Chipmunk has challenged Sammy Squirrel to an acorn-gathering contest. Cedric says he will gather exactly 100 acorns a day, Sammy says that he will start with 50 acorns on the first day and each day he will gather 50 more than the day before. By day 6, who is winning? Explain.
3. These are the low and high temperatures for 5 days in River Edge.

Saturday: 59-74 Sunday: 57-72

Monday: 49-70 Tuesday: 43-65

Wednesday: 48-67

Which day showed the greatest change in temperature?

Which 2 days showed the same temperature difference?

1. Dan and Shadi are two ten year olds who rakes leaves for money. Dan does it the old fashioned way with a rake. On one Saturday it takes him 6 hours to do 5 yards. He charges $16 for each job. Shadi rents a leaf blower for $20/day. He is able to do 8 yards in 4 hours. He charges $13 for each job. Which boy makes the most money? Justify your answer.
2. Ava wants to plant mums along the border of her 12 foot garden. She plans on placing them 1 ½ feet apart. If she plants the first one 1 ½ feet in, how many mums will she need? Show how you figured this out.
3. Together Kayla and Anushka sell 85 cups of hot chocolate at the Halloween Festival. Kayla sells 7 more cups than Anushka. How many do they each sell?
4. Farmer Hrak has a field with 60 rows, each with 58 cornstalks. Farmer Matt has 61 rows with 57 cornstalks in each. Who has the most cornstalks? Show your work.
5. Sabina buys her pumpkins at Sleepy Hollow Farm. They charge $.50 a pound. She buys one that weighs 9 pounds, one that weighs 12 pounds, and one that weighs 8 ½ pounds. How much does she spend?