Name _____ Date _____

Skills Maintenance
Complex Patterns

Activity 1

Select the algebraic pattern that matches the pattern of the numbers in the table.

1.

Box Number	1	2	3	4	5
Circles	2	3	4	5	6

(a) $n - 1$

(b) $n + 2$

(c) $n + 1$

2.

Box Number	1	2	3	4	5
Circles	4	5	6	7	8

(a) $n - 3$

(b) $n + 3$

(c) $n + 4$

3.

Box Number	1	2	3	4	5
Circles	0	1	2	3	4

(a) $n - 1$

(b) $n + 0$

(c) $n + 1$

Name _____ Date _____

Problem-Solving Activity
Ratio Problems

The table shows the costs for different items in a discount drug store.
Find the ratio or proportion to answer the questions, based on the
information in the table. Show your work.

Sammie's Discount Drugstore		
Item	**Quantity and Price**	**Weekly Special**
Soap	10 bars for $4	no
Razors	5 razors for $5	10 razors for $8
Hair bands	1 box for $3.00	no
Combs	3 combs for $1	no
Toothpaste	4 tubes for $8	7 tubes for $16
Toothbrush	2 toothbrushes $6	no
Shampoo	2 bottles for $5	8 bottles $20
Bandages	4 boxes for $8	no

1. You want to buy toothpaste. Which is the better deal, the regular price or the sale price? _____

   _____

2. What is the cost of just one bar of soap? _____

   _____

3. How much do you need to pay if you buy 9 combs and 4 toothbrushes? _____

   _____

4. Which is the better deal on shampoo, the regular price or the sale price? _____

   _____