Name	Date	
Skills Mai Patterns	ntenance	
Activity 1		
Fill in the missi	ing numbers in each of the patterns.	
Model	100, 90, <u>80</u> , 70, 60, <u>50</u> , <u>40</u>	
1. 2,	, 6,, 10, 12, 14,,	

2. _____, 6, 9, _____, 15, _____, 21, 24, 27

- **3**. 75, 70, 65, _____, 55, _____, 40, ____
- **4**. 7, 12, 17, 22, _____, ___, 37, 42, ____, 52
- **5**. 800, 700, _____, 500, _____, 300, 200, _____
- **6**. 119, 121, _____, 125, 127, _____, 131, _____

Name _____ Date _____

[™]_÷ Apply Skills Algebraic Patterns

Activity 1

Write the algebraic pattern using variables. Then tell how many circles there will be in a certain box in the pattern.

1. What is the algebraic pattern shown below? _____

How many circles will there be in the 15th box? _____

Box 1	Box 2	Box 3	Box 4	Box 5
0	00	000	0000	00000

2. What is the algebraic pattern shown below? _____

How many circles will there be in the 10th box?

Box 1	Box 2	Box 3	Box 4	Box 5
000	000000	000000	000000	000000 000000 000

3. What is the algebraic pattern shown below? How many circles will there be in the 9th box? _____

Box 1	Box 2	Box 3	Box 4	Box 5
0000	0000	0000 0000 0000	0000 0000 0000 0000	00000 00000 00000 00000

4. What is the algebraic pattern shown below? _____ How many circles will there be in the 8th box? _____

Box 1	Box 2	Box 3	Box 4	Box 5
00000	00000	00000 00000 00000	00000 00000 00000 00000	00000 00000 00000 00000 00000

Name ____

Pr	oblem-Solving Activity
An	other Way to Show Ratios
Use t	the information to create as many different ratios as you can. Make
sure	you do these things:
•	Write each ratio in horizontal form,
•	Write a statement that describes the ratio,

_____ Date ____

• Tell if the ratio is a part-to-part or part-to-whole relationship.



1. Marcus works at the company that makes phonebooks. There are two parts to the phonebook—the white pages and the yellow pages. There are 275 white pages and 320 yellow pages in a phonebook that is 595 pages long.

2. There are three kinds of seats still left for the next professional basketball playoff game. There are 75 cheap seats, 40 average price seats, and 85 expensive seats left for a total of 200 seats that are not sold for the game.