



Name _____ Date _____

Problem Solving: Number Patterns

CA Standards
MR 1.1, AF 2.2

Attendance at a craft show for the past four years was 214 people, 234 people, 254 people, and 274 people. If the pattern continues, what is attendance likely to be this year?

Step 1 Make a table showing each number change from year to year, including both the number and the amount of each change.

attendance	2 <u>1</u> 4	→	2 <u>3</u> 4	→	2 <u>5</u> 4	→	2 <u>7</u> 4
change		+ 20		+ 20		+ 20	

Step 2 Add 20 to the attendance for last year.

$$274 + 20 = 294$$

Solution: Attendance this year is likely to be 294.

Use a number pattern to solve each problem.

- Julie sold 10 tickets on Monday, 20 tickets on Tuesday, and 30 tickets on Wednesday to the craft show. If the pattern continues, how many tickets is Julie likely to sell on each of the next three days?

- Melinda made a set of earrings for each girl in her class. If there were 13 girls in her class, how many individual earrings did she have to make?

- Rosa wrote the pattern 1, 3, 7, 13. What should be the next two numbers in the pattern?
