Exploring Patterns

A number pattern is a sequence of numbers that follow a certain rule. For example:

Pattern   Rule   Proof

1, 2, 3, 4, 5   add 1   1+1=2+1=3+1=4+1=5

50, 40, 30, 20, 10   subtract 10   50-10=40-10=30-10=20-10=10

A. Instructions: Write the next number in the sequence. Then, write what the pattern is for that sequence.

2, 4, 6, 8, 10, 12, _____   _____

3, 6, 9, 12, 15, 18, _____   _____

23, 20, 17, 14, 11, 8, _____   _____

4, 14, 24, 34, 44, 54, _____   _____

52, 44, 36, 28, 20, 12, _____   _____

7, 14, 21, 28, 35, 42, _____   _____

B. Instructions: Write the next number in each sequence according to the rule.

Add 5   55, 60, 65, _____ , _____ , _____

Subtract 11   88, 77, _____ , _____ , _____ , _____

Add 9   0, _____ , _____ , _____ , _____ , _____