Describing and Extending Numeric Patterns

In this worksheet, we will practice describing and extending numeric patterns. This worksheet will ask you what the rule is for a pattern. For example, if you are asked what the rule is for the pattern 2, 3, 4, 5, 6- you could say that the rule is +1. If you were to extend this pattern, the next three numbers would be 7, 8, 9.

Exercise Questions:

1. Write the next three numbers for the pattern below, and then write the rule:
   10, 20, 30, 40, 50, ___ , ___ , ___          The rule for this pattern is: _________

2. Write the next three numbers for the pattern below, and then write the rule:
   25, 30, 35, 40, 45, ___ , ___ , ___          The rule for this pattern is: _________

3. Write the next three numbers for the pattern below, and then write the rule:
   110, 112, 114, 116, 118, ___ , ___ , ___       The rule for this pattern is: _________

4. Write the next three numbers for the pattern below, and then write the rule:
   84, 88, 92, 96, 100, ___ , ___ , ___          The rule for this pattern is: _________

5. Write the next three numbers for the pattern below, and then write the rule:
   2, 4, 8, 16, 32, ___ , ___ , ___           The rule for this pattern is: _________
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Exercise Questions:

1. Write the next three numbers for the pattern below, and then write the rule:
   
   10, 20, 30, 40, 50, __60__, __70__, __80__ 
   
   The rule for this pattern is: ___ + 10___

2. Write the next three numbers for the pattern below, and then write the rule:
   
   25, 30, 35, 40, 45, __50__, __55__, __60__ 
   
   The rule for this pattern is: ___ + 5___

3. Write the next three numbers for the pattern below, and then write the rule:
   
   110, 112, 114, 116, 118, __120__, __122__, __122__ 
   
   The rule for this pattern is: ___ + 2___

4. Write the next three numbers for the pattern below, and then write the rule:
   
   84, 88, 92, 96, 100, __104__, __108__, __112__ 
   
   The rule for this pattern is: ___ + 4___

5. Write the next three numbers for the pattern below, and then write the rule:
   
   2, 4, 8, 16, 32, __64__, __128__, __256__ 
   
   The rule for this pattern is: ___ x 2___