Objective 6 Remediation

Analyze a set of data for the existence of a pattern by completing a table or a sequence.

With practice, a variety of common number patterns can be identified. This requires careful observation. Identifying patterns involves being able to look at features such as differences (the amounts between numbers) and rates of change (how quickly the numbers are seen to increase or decrease).

Hints:

- Check to see if the same number is added
- Check to see if the same number is subtracted
- Check to see if the same number is multiplied
- Check to see if the same number is divided
- Check to see if there is a second level common sum or difference
- Check to see if the pattern is changing by odd or even quantities

Ex. A

1, 3, 5, 7, ___, ___, ___

       Answers: 9, 11, 13

Ex. B

x	0	5	15	30	50	75
y	6	-12	24			

       Answers: -48, 96, -192

Complete the table or sequence

Ex. 1

    10, 15, 20, 25, ___, ___, ___

Ex. 2

    -45, - 42, -39, -36, ___, ___, ___

Ex. 3

    8, 6, 4, 2, ___, ___, ___

Ex. 4

    100, 50, 25, 12.5, ___, ___, ___

Ex. 5

    2, 6, 18, 54, ___, ___, ___

Ex. 6

    12, 15, 19, 24, ___, ___ , ___

Ex. 7

x	10	20	30	40	50	60
y	3.5	3.6	3.7			

Ex. 8

x	0	1	2	3	4	5
y	0.8	-3.2	12.8			

Ex. 9

x	-4	-3	-2	-1	0	1
y	2.5	3.6	4.8			

Ex. 10

x	0	2	4	6	**8**	**10**
y	-45	-48	-51			

Ex. 11

x	-3	-2	-1	0	1	2
y	-10	-14	-19			