

## Grade 8 – Standard 11

17. List the next three terms of the following sequence:

1, 1, 3, 15, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

- A) 31, 41, 53
- B) 75, 525, 4725
- C) 90, 630, 5040
- D) 105, 945, 10395

33. List the next two values in this sequence:

4, 10, 22, \_\_\_\_\_, \_\_\_\_\_

- E) 34, 46
- F) 34, 48
- G) 40, 62
- H) 46, 94

41. The number pattern shown below represents the number of diagonals that can be drawn in regular polygons. How many diagonals can be drawn in a regular polygon that has 10 sides?

<i>Number of Sides</i>	3	4	5	6				
<i>Number of Diagonals</i>	0	2	5	9				

- E) 14
- F) 20
- G) 35
- H) 45

66. If the following graphs represent four different phone bills, which bill increased at the fastest rate? The scales on all four graphs are the same.

