

**1) Answer: A**

**Explanation:** The sequence is an arithmetic sequence where the common difference is -5. This means we add -5 to the previous term to get the succeeding term.

Thus, the following term can be obtained by adding -5 (or subtracting 5) to 33:  $33 + (-5) = 28$ .

Hence, the answer is 28.

**2) Answer: B**

**Explanation:** The sequence is an alternating sequence where we alternate subtracting 2 from and multiplying 2 by the terms:

$$7 - 2 = 5$$

$$5 \times 2 = 10$$

$$10 - 2 = 8$$

$$8 \times 2 = 16$$

We paused at  $8 \times 2 = 16$ . Since the sequence paused at multiplication by 2, we should subtract 2 from the previous number to get the missing term:  $16 - 2 = 14$ .

Thus, the missing term is 14.

**3) Answer: A**

**Explanation:** The sequence is formed by adding previous terms to get the succeeding term (i.e., recursive sequence). Hence, to find the missing term, we add 25 and 41:  $25 + 41 = 66$ .

Thus, the answer is 66.

**4) Answer: A**

**Explanation:** The sequence in this problem follows an increasing difference pattern where the difference between the numbers is increasing by 1:

$$18 + 1 = 19$$

$$19 + 2 = 21$$

$$21 + 3 = 24$$



## Number Sequences

*Answer Key*

$$24 + 4 = 28$$

$$28 + 5 = 33$$

Thus, the answer is 33.

### 5) Answer: D

**Explanation:** The sequence in this problem is a geometric sequence with a common ratio of 3. Hence, the missing term can be obtained by multiplying 162 by 3:  $162 \times 3 = 486$ .



For more related review materials, visit  
<https://filipiknow.net/logical-and-analytical-reasoning/>

*To God be the glory!*