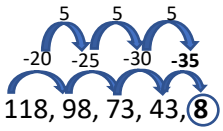
Answer List: General 2a

1. Answer: 274
   Reason: Under this series, every subsequent number is obtained by adding 29 to the previous number.
   Therefore, 245+**29** = **274**

2. Answer: 17
   Reason: The difference between each number is as follows:
   1 + **1** = 2
   2 + **3** = 5
   5 + **5** = 10
   We see that, these form a series 1,3 and 5 with increments of 2. Therefore, the next number that should be added to 10 will be 5+2 =7.
   ⇨ 10+**7** = **17**

3. Answer: 1875
   Reason: Here, each number is obtained by multiplying successive number by 5
   3 x **5** = 15
   15 x **5** = 75
   75 x **5** = 375
   So, the next number is 375 x 5 =**1875**

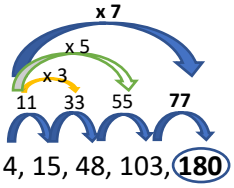
4. Answer: 8
   Reason: Here, the difference between the numbers is 20,25,30… i.e values with gap of 5. Therefore, the next number that should be deducted from 43 is 35. Thus, the next number is: 43-35=**8**



5. Answer: 60
   Reason: In the above question, each number is obtained as follows:
   12 x **2** = 24
   12 x **3** = 36
   12 x **4** = 48
   Next number is 12 x 5 = **60**

6. Answer: 384
   Reason: The numbers in the series are multiplied by multiples of 2 i.e 2,4,6…
   Next number will be 48 x 8 = 384

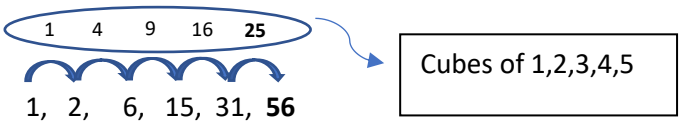
7. Answer: 180
   Reason: Here, the difference between the numbers is 11,33,55… which are multiples of 11.
   11 x **1** =11
   11 x **3** =33 (2)
   11 x **5** =55 (2)
   11 x **7** =**77** (2)



8. Answer: 64
   Reason: This is a series of cube numbers i.e 1^3, 2^3, 3^3, ?, 5^3,…
   So, missing number is 4^3 i.e **64**

9. Answer: 222 i.e (6^3+6)
   Reason: The series can be written in the form
   $9^3 - 9$, $8^3 + 8$, $7^3 - 7$, ?, $5^3 - 5$, $4^3 + 4$
   So clearly, we see that the missing number expression is $\mathbf{6^3 + 6} = 216 + 6 = \mathbf{222}$

10. Answer: 56
    Reason:



11. Answer: 54,84
    Reason: Under this series, every subsequent number is obtained by adding 15 to the previous number.
    Therefore, 39+**15**=**54** and 69+**15**=**84**

12. Answer: 135
    Reason: The difference between each number is as follows:
    105 + **3** = 108
    108 + **6** = 114
    114 + **9** = 123
    We see that, these form a series 3, 6, 9, … with increments of 3. Therefore, the next number that should be added to 123 will be 9+3 =12.
    ⇨ 123+**12** =**135**

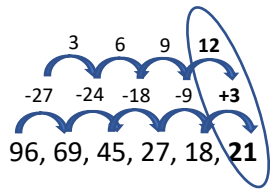
13. Answer: 54
    Reason: In the above question, each number is obtained as follows:
    18 x **2** = 36
    18 x 3 = 54
    18 x **4** = 72
    18 x **5** = 90

14. Answer: 1296
    Reason: Here, each number is obtained by multiplying successive number by 6
    6 x **6** = 36
    36 x **6** = 216
    216 x 6 = 1296
    1296 x **6** = 7776

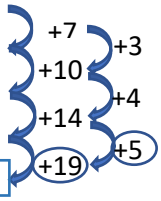
15. Answer: 144
    Reason: There are multiple approaches to this answer.
    (a). The difference between the numbers forms a series as: 20, 28, 36, .. with increments of 8.
    The next number will therefore be: **100 + (36 + 8) = 144**
    (b). The numbers are a series of squares of evens i.e 4^2, 6^2, 8^2, …So the next number to be squared will be 12, i.e $\mathbf{12^2}$ **is 144**.

16. Answer: 21
    Reason: Here, the following pattern is observed.

96 – **27** = 69
69 – **24** = 45
45 – **18** = 27
27 – **09** = 18
18 + 03 = 21



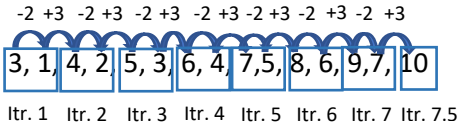
17. Answer: 330
Reason: In this number series, all are multiples of 6, but follow a certain pattern.
6 x **5** = 30
6 x **12** = 72
6 x **22** = 132
6 x **36** = 216
6 x 55 = 330



18. Answer: 83
Reason: Here, the difference between the numbers form a series as follows:15, 25, … i.e
23 – 8 = 15
48 – 23 =25
Therefore, next number would be **48 + 35 = 83**
And **83** + 45 = 128 as well.

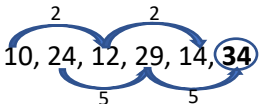
19. Answer: 448
Reason: If observed carefully, the series follow the pattern x2, x4, x2, … i.e
7 x **2** = 14
14 x **4** = 56
56 x **2** = 112
Therefore, **112 x 4 = 448**

20. Answer: 7.5
Reason: If the number of steps followed by the monkey can be put into a series, it would look like this.



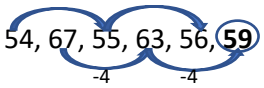
Therefore, the monkey takes 7.5 iterations to reach the 10th step.

21. Answer: 34
Reason: This is a mixed series, which can be split as:

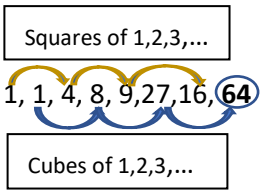


22. Answer: 59
Reason: This is a mixed series, which can be split as:

1 1



23. Answer: 64
    Reason: This is a mixed series, which can be split as:



24. Answer: 208
    Reason: This is a miscellaneous series, meaning that the numbers have more than 1 operation.
    (6 x 1) + 1 = 7
    (7 x 2) + 2 = 16
    (16 x 3) + 3 = 51
    Therefore, **(51 x 4) + 4 = 208**

25. Answer: 248
    Reason: In this series, each number is multiplied by a value and subtracted by the same value.
    (13 x 1) – 1 = 12
    (12 x 2) – 2 = 22
    (22 x 3) – 3 = 63
    (63 x 4) – 4 = 248

26. Answer: 926
    Reason: In this series, each number is multiplied by a value and subtracted by 1.
    (6 x 1) + 1 = 7
    (7 x 2) + 1 = 15
    (15 x 3) + 1 = 46
    (46 x 4) + 1 = 185
    (185 x 5) + 1 = 926

27. Answer: 205
    Reason: The above series is called Fibonacci Series, in which the present number is added to the previous number to get the next number.
    Likewise,
    15 + 32 = 47
    32 + 47 = 79
    79 + 126 = 205

28. Answer: 62
    Reason: In this series, the difference between the current and the next number is the sum of the digits of the current number.
    Likewise,
    2 + 3 = 5
    2 + 8 = 10
    3 + 8 = 11
    4 + 9 = 13
    ⇨ **49 + 13 = 62**

29. Answer: 57

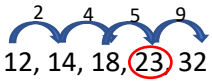
Reason: In this series, the difference between the current and the next number is the sum of the digits of the current number.
Likewise,
2 + 4 = 6
3 + 0 = 3
3 + 3 = 6
3 + 9 = 12
5 + 1 = 6
⇨ **51 + 6 =57**

30. Answer: $\frac{18}{3}$
Reason: This is a simple series in which a constant fraction of $\frac{4}{3}$ is added to each number to get the next one. Therefore, $\frac{14}{3} + \frac{4}{3} = \frac{18}{3}$

31. Answer: 140
Reason: In this series, the difference between the current and the next number is the product of the digits of the current number.
4 x 1 = 4
4 x 5 = 20
6 x 5 = 30
9 x 5 = 45
⇨ **95 + 45 = 140**

32. Answer: 39
Reason: In this series, prime numbers are being added to each number.

33. Answer: 23
Reason: As we can see, the difference between the numbers are even. However, the occurrence of number 23 in the series leads to a deviation from this pattern, which can be corrected by replacing 23 with 24.



34. Answer: 100
Reason: This is a Fibonacci series. Each number is obtained by adding the previous two numbers.
15 + 23 = 38
23 + 38 = 61
38 + 61 = 99 and not 100

35. Answer: 25
Reason: This is a mixed series which follows the pattern as below.