

## PART 1

1. Find the odd man out. 1, 3, 9, 12, 19, 29

**Explanation :**

12 is an even number. All other given numbers are odd

2. Find the odd man out. 1, 8, 27, 64, 125, 196, 216, 343

**Explanation :**

The pattern is  $1^3$ ,  $2^3$ ,  $3^3$ ,  $4^3$ ,  $5^3$ ,  $6^3$ ,  $7^3$ .

196 is not a perfect cube

3. Find the odd man out. 15, 25, 30, 51, 85, 90, 115

**Explanation :**

All except 51 are multiples of 5

4. Find the odd man out. 24, 36, 52, 72, 96

**Explanation :**

All except 52 are multiples of 6

5. Find the odd man out. 187, 264, 386, 473, 682, 781

**Explanation :**

In all numbers except 386, the middle digit is the sum of other two digits.

6. Find the odd man out. 12, 24, 34, 48, 64, 84

**Explanation :**

All numbers except 34 are multiples of 4

7. Find the odd man out. 362, 482, 551, 263, 344, 284

**Explanation :**

In all numbers except 344, the product of first and third digits is the middle digit.

8. Find the odd man out. 742, 743, 633, 853, 871, 990, 532

**Explanation :**

In all numbers except 742, the difference of third and first digit is the middle digit.

9. Find the odd man out. 1, 5, 11, 17, 23, 29

**Explanation :**

All given numbers except 1 are prime numbers.

One is not a prime number because it does not have two factors. It is divisible by only 1

10. Find the odd man out. 7, 13, 19, 25, 29, 37, 43

**Explanation :**

All given numbers except 25 are prime numbers.

11. Find the odd man out. 1, 9, 16, 51, 121, 169, 225

**Explanation :**

Each of the given numbers except 51 is a perfect square

12. Find the odd man out. 1, 4, 9, 17, 25, 36, 49

**Explanation :**

The pattern is  $1^2$ ,  $2^2$ ,  $3^2$ ,  $4^2$ ,  $5^2$ ,  $6^2$ ,  $7^2$

But, instead of  $4^2$ , 17 is given

## SERIES (ODD MAN OUT P2)

13. Find the odd man out. 2, 5, 10, 17, 26, 38, 50, 65

**Explanation :**

The pattern is  $(1 \times 1) + 1$ ,  $(2 \times 2) + 1$ ,  $(3 \times 3) + 1$ ,  $(4 \times 4) + 1$ ,  $(5 \times 5) + 1$ ,  $(6 \times 6) + 1$ ,  
 $(7 \times 7) + 1$ ,  $(8 \times 8) + 1$

Hence, in place of 38, the right number was  $(6 \times 6) + 1 = 37$

14. Find the odd man out. 18, 16, 12, 24, 11, 34, 46

**Explanation :**

11 is the only odd number in the given series

15. Find the odd man out. 1, 27, 216, 512, 1024, 1331

**Explanation :**

All given numbers except 1024 are perfect cubes

16. Find the odd man out. 1, 16, 81, 255, 625, 1296

**Explanation :**

The pattern is  $1^4$ ,  $2^4$ ,  $3^4$ ,  $4^4$ ,  $5^4$ ,  $6^4$

Hence, in place of 255, the right digit is  $4^4 = 256$

17. Find the odd man out. 6, 13, 18, 25, 30, 37, 40

**Explanation :**

The difference between two successive terms from the beginning are 7, 5, 7, 5, 7, 5

Hence, in place of 40, right number is  $37 + 5 = 42$

18. Find the odd man out. 445, 221, 109, 46, 25, 11, 4

**Explanation :**

To obtain next number, subtract 3 from the previous number and divide the result by 2

$$445 \mid (445-3)/2 = 221 \mid (221-3)/2 = 109 \mid (109-3)/2 = 53 \mid (53-3)/2 = 25$$

$$(25-3)/2 = 11 \mid (11-3)/2 = 4$$

Clearly, 53 should have come in place of 46

19. Find the odd man out. 1050, 510, 242, 106, 46, 16, 3

**Explanation :**

$$1050 \mid (1050 - 30)/2 = 510 \mid (510 - 26)/2 = 242 \mid (242 - 22)/2 = 110$$

$$(110 - 18)/2 = 46 \mid (46 - 14)/2 = 16 \mid (16 - 10)/2 = 3$$

Hence, 110 should have come in place of 106

20. Find the odd man out. 2, 3, 5, 9, 12, 17, 23

**Explanation :**

$$2 \mid 2 + 1 = 3 \mid 3 + 2 = 5 \mid 5 + 3 = 8 \mid 8 + 4 = 12$$

$$12 + 5 = 17 \mid 17 + 6 = 23$$

ie, 8 should have come in place of 9

21. Find the odd man out. 3, 8, 18, 38, 78, 158, 316

**Explanation :**

$$3 \mid 3 \times 2 + 2 = 8 \mid 8 \times 2 + 2 = 18 \mid 18 \times 2 + 2 = 38 \mid 38 \times 2 + 2 = 78$$

$$78 \times 2 + 2 = 158 \mid 158 \times 2 + 2 = 318$$

Hence, 316 is wrong and 318 should have come in place of that

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## SERIES (ODD MAN OUT P2)

22. Find the odd man out. 5, 6, 14, 45, 185, 925, 5556

**Explanation :**

$$5 \times 1 + 1 = 6 \quad | \quad 6 \times 2 + 2 = 14 \quad | \quad 14 \times 3 + 3 = 45 \quad | \quad 45 \times 4 + 4 = 184 \\ 184 \times 5 + 5 = 925 \quad | \quad 925 \times 6 + 6 = 5556 \quad |$$

Hence, it is clear that 184 should have come instead of 185

23. Find the odd man out. 23, 27, 36, 52, 77, 111, 162

**Explanation :**

$$23 + 2^2 = 27 \quad | \quad 27 + 3^2 = 36 \quad | \quad 36 + 4^2 = 52 \quad | \quad 52 + 5^2 = 77 \\ 77 + 6^2 = 113 \quad | \quad 113 + 7^2 = 162$$

Hence, 113 should have come in place of 111

24. Find the odd man out. 241, 263, 248, 271, 255, 277, 262

**Explanation :**

Alternatively 22 is added and 15 is subtracted from the terms. Hence, 271 is wrong

$$241 \quad | \quad 241 + 22 = 263 \quad | \quad 263 - 15 = 248 \quad | \quad 248 + 22 = 270 \quad | \quad 270 - 15 = 255 \\ 255 + 22 = 277 \quad | \quad 277 - 15 = 262$$

25. Find the odd man out. 125, 127, 130, 135, 142, 153, 165

**Explanation :**

Prime numbers 2, 3, 5, 7, 11, 13 are added successively. Hence, 165 is wrong

26. Find the odd man out. 5, 10, 40, 81, 320, 640, 2560

**Explanation :**

Alternatively 2 and 4 are multiplied with the previous terms

$$5 \quad | \quad 5 \times 2 = 10 \quad | \quad 10 \times 4 = 40 \quad | \quad 40 \times 2 = 80 \quad | \quad 80 \times 4 = 320 \\ 320 \times 2 = 640 \quad | \quad 640 \times 4 = 2560$$

Hence, 81 is wrong. 80 should have come in place of 81.

27. Find the odd man out. 12, 21, 32, 45, 60, 77, 95

**Explanation :**

$$12 + 9 = 21 \quad | \quad 21 + 11 = 32 \quad | \quad 32 + 13 = 45 \quad | \quad 45 + 15 = 60 \\ 60 + 17 = 77 \quad | \quad 77 + 19 = 96$$

Hence, 95 is wrong. 96 should have come in place of 95

28. Find the odd man out. 3, 5, 15, 75, 1120, 84375

**Explanation :**

Pattern : 1st \* 2nd = 3rd, 2nd \* 3rd = 4th, etc.

$$3 \quad | \quad 5 \quad | \quad 3 \times 5 = 15 \quad | \quad 5 \times 15 = 75 \quad | \quad 15 \times 75 = 1125 \quad | \quad 75 \times 1125 = 84375$$

Hence, 1120 is wrong. 1125 should have come in place of 1120

## SERIES (ODD MAN OUT P2)

29. Find the odd man out. 3576, 1784, 888, 440, 216, 105, 48

**Explanation :**

$$3576 \mid (3576-8)/2 = 1784 \mid (1784-8)/2 = 888 \mid (888-8)/2 = 440 \\ (440-8)/2 = 216 \mid (216-8)/2 = 104 \mid (104-8)/2 = 48$$

Hence, 105 is wrong. 104 should have come in place of 105

30. Find the odd man out. 30, -5, -45, -90, -145, -195, -255

**Explanation :**

$$30 \mid 30 - 35 = -5 \mid -5 - 40 = -45 \mid -45 - 45 = -90 \mid -90 - 50 = -140 \\ -140 - 55 = -195 \mid -195 - 60 = -255$$

Hence, -145 is wrong. -140 should have come in place of -145

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