

NTSE MAT SOLUTIONS

1. $(2) - 148$

$1^3 - 1, 2^3 + 1, 3^3 + 7, 4^3 + 14$ so now $5^3 +$

$23 - 1, 2, 7, 14, 23$ having differences

$3, 5, 7$ the g.

2. (1)

3. $(4) - 168$

$4 \times 6, 10 \times 6, 16 \times 6, 22 \times 6$, than $28 \times 6 = 168$

4. $(3) - 515$

$7 \times 1 - 1 = 6$

$6 \times 2 - 2 = 10$

$10 \times 3 - 3 = 27$ and so on.

5. $(1) - 111$

$1, 5, 15, 34, 65$

Difference $4, 10, 19, 31, \dots$

$6, 9, 12$ so now difference will be 15

$31 + 15 = 46$ so $65 + 46 = 111$

6. $(1) - 184$

$(11 + 9) \times (11 - 9), (15 + 7) \times (15 - 7)$

$20 \times 2 = 40 \quad 22 \times 8 = 176$

So $(25 + 21) (25 - 21)$

$46 \times 4 = 184$

Note: In this question may be 126 will be written as 176 .

7. $(1) - 16$

$9 + 5 = 5 + 9$

$17 + 4 = 4 + 17$

$16 + 8 = 16 + 8$ If we add $I^{\text{st}} + III^{\text{rd}}$ and $II^{\text{nd}} + IV^{\text{th}}$ vertically

8. (2) - 39

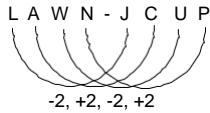
$$4^2 - 3^2, 10^2 - 9^2 = 19, \text{ so on } 8^2 - 5^2 = 39$$

9. (3) - 1

$$[8 \times 5 = 40] - [4 \times 3 = 12] = 28 \text{ and so on}$$

10. (2)

11. (1)



12. (1) - RISE

Note: Question may be wrong

13. (1) - 5427

Only by observation (L-5, A-4, N-2, E-7)

LONG - 5123

GEAR - 3748

LANE - 5427

14. (2)

STRAY - TUSBZ +1,

+1, +1, +1, +1

15. Solution is not there

16. (2) - 168

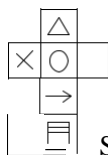
17. (3) - 4

By observations 2, 5, 3 are adj: to 4

6, 1, 4, 5 are adj to 3 so 2 opp to 3

So 4 is opp to 6

18. (1) - a



19. (3) - Circle  So  opp to 

20. (1) – 15

21. (2) – abbab

22. (3) – baaab

23. (3) – abab

24. (1) – ababb

25. (1) – mnpmon

26. (4) – 6482

Due to disturbance in sequence.


27. (3) – 56

All no's are 2's power

28. (2) – 7324

The sum of all digits is '17'

29. (1)–7

7, 5, 31, 5, 7


30. (4) – 813

31. (4) – 11

By figure observations only by taking intersection of given diagram

32. (2)–3

By figure observations only by taking intersection of given diagram

33. (3) – 10

By figure observations only by taking intersection of given diagram

34. (1)–4

By figure observations only by taking intersection of given diagram

35. (4) – 12

By figure observations only by taking intersection of given diagram

36. (4)

Train & Bus both are transport mediums for travelers

37. (2)
Divided, bonus are districts but lies is profit
38. (1)
All mothers are women but some mothers of course womens may be engineers
39. (4)
Product & machinery are district parts of factory
40. (2)
All are district professions
41. (2)
Only by observing of the series
42. (3)
Only by observing of the series
43. (3)
Only by observing of the series
44. (5)
Only by observing of the series
45. (5)
Only by observing of the series
46. (1)
Only by observing of the series
47. (5)
Only by observing of the series
48. (1)
Only by observing of the series
49. (3)
Only by observing of the series
50. (1)
Only by observing of the series