

Similarlity 2022

————— *Reasoning with Mohit Kawatra*

1. (20, 6,4), (24, 7, 5)
(a) (65, 9, 4)
(b) (22, 5, 2)
(c) (40, 8, 5)
(d) (42, 7, 3)
2. 19: 324 :: 25:576:: 9:?
(a) 16 (b) 64
(c) 88 (d) 72
3. (240, 55,65), (24, 7, 5)
(a) (140, 35, 25)
(b) (220, 90, 15)
(c) (160, 35, 45)
(d) (200, 5, 105)
4. 35:21::?: 36:: 40:24
(a) 65 (b) 50
(c) 60 (d) 55
5. (9, 81,729), (14, 196, 2744)
(a) (11, 212, 464)
(b) (17, 289, 4913)
(c) (25, 652, 9375)
(d) (15, 375, 1125)
6. (23, 14, 9), (37, 19, 18)
(a) (125, 25,5)
(b) (125, 100, 5)
(c) (125, 25, 100)
(d) (125, 5, 25)
7. (40, 120,400), (18, 20, 78)
(a) (29, 23, 98)
(b) (56, 14, 108)
(c) (25, 27, 92)
(d) (11, 720, 660)
8. (16, 7, 37), (28, 9, 55)
(a) (19, 6, 36)
(b) (13, 4, 25)
(c) (20, 7, 45)
(d) (23, 8, 48)
9. (4, 13,5), (3, 12, 6)
(a) (4, 10, 3)
(b) (7, 16, 3)
(c) (5, 17, 6)
(d) (5, 17, 7)
10. (4, 25, 6), (8, 25, 3)
(a) (3, 81, 6)
(b) (7, 22, 3)
(c) (12, 96, 8)
(d) (14, 55, 4)
11. 10: 81::6:25::7:?
(a) 38 (b) 36
(c) 42 (d) 40
12. (11,13,143), (17,11,187)
(a) (3, 4, 7)
(b) (3, 4, 13)
(c) (3, 4, 12)
(d) (3, 4, 1)
13. (15, 9,4), (7, 2, 3)
(a) (21, 12, 6)
(b) (19, 13, 4)
(c) (24, 9, 11)
(d) (18, 7, 7)
14. (3, 2, 35), (1, 4, 65)
(a) (7, 2, 351)
(b) (3, 2, 31)
(c) (5, 4, 41)
(d) (6, 8, 224)
15. (36, 90, 18), (15, 35, 8)
(a) (14, 45, 5)
(b) (4, 42, 7)
(c) (13, 78, 6)
(d) (12, 60, 8)
16. (452,50,63), (260,35,30)
(a) (330, 30, 45)
(b) (260, 30, 25)
(c) (260, 50, 15)
(d) (230, 15, 45)
17. (12, 42,7), (13, 52, 8)
(a) (8, 7, 43)
(b) (7, 12, 6)
(c) (9, 26, 8)
(d) (9, 18, 4)
18. (26, 120, 34), (14, 110, 41)
(a) (36, 106, 17)
(b) (72, 240, 16)
(c) (44, 114, 24)
(d) (15, 450, 8)
19. 30:48 :: 60: ? :: 45: 72
(a) 96 (b) 92
(c) 90 (d) 88
20. (8,12,6), (9,18,8)
(a) (4, 12, 6)
(b) (12, 24, 8)
(c) (7, 24, 4)
(d) (9, 10, 11)
21. 11: 94:: 23:?: 18: 150
(a) 190 (b) 199
(c) 129 (d) 109
22. (0.20,5,25), (0.083,12, 144)
(a) (0.240, 4, 16)
(b) (0.143, 6, 36)
(c) (0.056, 18, 289)
(d) (0.063, 16, 256)

23. (6, 22, 14), (8, 30, 19)
 (a) (12, 46, 27)
 (b) (4, 18, 11)
 (c) (7, 26, 17)
 (d) (9, 34, 22)
24. Which option does NOT follow the same rule as in given number (22, 9, 198)
 (a) (19, 7, 133)
 (b) (26, 5, 130)
 (c) (28, 7, 196)
 (d) (17, 9, 157)
25. (70, 14, 56), (88, 30, 58)
 (a) (44, 4, 23)
 (b) (559, 36, 25)
 (c) (52, 19, 33)
 (d) (38, 16, 24)
26. 8: 128::6:?: 11:242
 (a) 64 (b) 72
 (c) 70 (d) 68
27. 7: 25::4:4::3:?
 (a) 5 (b) 4
 (c) 1 (d) 7
28. (5: 25:30), (16: 256: 272)
 (a) (15: 225: 230)
 (b) (9:81: 109)
 (c) (1: 361: 381)
 (d) (13: 169: 182)
29. 729:90::?: 56:512:72
 (a) 323 (b) 343
 (c) 352 (d) 335
30. 17:4607 :: 11:?: 23: 11615
 (a) 1140 (b) 1572
 (c) 1463 (d) 1199
31. 11:91::?: 154 :: 15: 127
 (a) 16 (b) 18
 (c) 14 (d) 24
32. (23, 161, 207), (47, 329, 423)
 (a) (64, 448, 576)
 (b) (84, 442, 570)
 (c) (29, 112, 782)
 (d) (33, 97, 297)
33. 18: 234::?: 176:: 14:126
 (a) 14 (b) 15
 (c) 20 (d) 16
34. 6: 125::2:1:: 5?
 (a) 81 (b) 64
 (c) 68 (d) 72
35. (2, 8, 36), (4, 9, 25)
 (a) (6, 100, 8)
 (b) (5, 18, 4)
 (c) (5, 100, 4)
 (d) (4, 49, 3)
36. (2, 8, 36), (4, 9, 25)
 (a) (14, 18, 9)
 (b) (13, 20, 49)
 (c) (21, 15, 35)
 (d) (12, 14, 26)
37. (7, 11, 72), (5, 8, 39)
 (a) (4, 7, 33)
 (b) (2, 3, 1)
 (c) (5, 2, 23)
 (d) (5, 6, 13)
38. Which option does NOT follow the same rule as in given number. (267, 128, 139)
 (a) (257, 132, 125)
 (b) (325, 112, 215)
 (c) (365, 154, 211)
 (d) (297, 146, 151)
39. (2, 125, 3), (1, 64, 3)
 (a) (2, 100, 8)
 (b) (5, 512, 3)
 (c) (12, 50, 13)
 (d) (4, 341, 3)
40. 47:9::?: 14 :: 72:18
 (a) 72 (b) 73
 (c) 37 (d) 27
41. Which option does NOT follow the same rule as in given number. (16, 7, 112)
 (a) (18, 3, 54)
 (b) (14, 5, 70)
 (c) (22, 7, 154)
 (d) (26, 5, 132)
42. 12: 120 :: 20: 360 :: 3 :?
 (a) 15 (b) 32
 (c) 7 (d) 3
43. 7: 13:: 16:31 :: 46:?
 (a) 81 (b) 83
 (c) 91 (d) 97
44. (7, 4, 56), (8, 3, 48)
 (a) (90, 3, 400)
 (b) (87, 4, 128)
 (c) (96, 42, 12)
 (d) (9, 10, 180)

45. (9, 16, 5), (7, 9, 4)
 (a) (14, 64, 7)
 (b) (14, 100, 5)
 (c) (11, 36, 5)
 (d) (12, 66, 4)
46. (17, 24, 58), (26, 37, 89)
 (a) (15, 17, 47)
 (b) (41, 39, 125)
 (c) (10, 220, 44)
 (d) (21, 38, 96)
47. (13, 39, 6), (9, 18, 4)
 (a) (12, 48, 8)
 (b) (12, 50, 13)
 (c) (15, 45, 3)
 (d) (20, 28, 8)
48. (45, 15, 120), (27, 8, 76)
 (a) (72, 58, 84)
 (b) (30, 12, 80)
 (c) (23, 14, 38)
 (d) (56, 48, 32)
49. (12, 112, 9), (10, 84, 8)
 (a) (12, 149, 12)
 (b) (13, 55, 4)
 (c) (11, 99, 9)
 (d) (18, 94, 5)
50. 4:84:: 11:?: 13: 2379
 (a) 1221 (b) 1463
 (c) 1440 (d) 819
51. (3, 13, 18), (29, 39, 44)
 (a) (17, 27, 42)
 (b) (25, 30, 55)
 (c) (26, 30, 47)
 (d) (16, 26, 31)
52. 15: 125:27:36: 1728
 (a) 689 (b) 749
 (c) 790 (d) 729
53. 42, 18, 3), (36, 14, 4)
 (a) (34, 13, 4)
 (b) (50, 20, 4)
 (c) (46, 18, 4)
 (d) (42, 15, 5)
54. 144:36:: 81:?: 196: 42
 (a) 30 (b) 23
 (c) 27 (d) 29
55. (4, 50, 6), (13, 128, 3)
 (a) (12, 60, 5)
 (b) (2, 125, 3)
 (c) (2, 62, 6)
 (d) (15, 62, 3)
56. 11:31::?: 25:: 14:40
 (a) 8 (b) 10
 (c) 7 (d) 9
57. 76:11:88:?: 68:9
 (a) 12 (b) 14
 (c) 18 (d) 15
58. (60, 5, 6), (48, 8, 3)
 (a) (17, 3, 4)
 (b) (24, 4, 6)
 (c) (24, 4, 3)
 (d) (25, 4, 3)
59. (144, 9, 3), (225, 7, 8)
 (a) (168, 5, 8)
 (b) (64, 5, 3)
 (c) (81, 6, 2)
 (d) (120, 7, 4)
60. (34, 23, 12), (71, 37, 3)
 (a) (75, 50, 20)
 (b) (20, 65, 50)
 (c) (19, 55, 91)
 (d) (14, 12, 16)
61. (2, 4, 18), (1, 9, 50)
 (a) (3, 5, 32)
 (b) (2, 5, 49)
 (c) (6, 4, 10)
 (d) (5, 4, 18)
62. (5, 35, 7), (8, 32, 4)
 (a) (11, 56, 5)
 (b) (3, 27, 9)
 (c) (4, 30, 7)
 (d) (9, 38, 4)
63. (99, 199, 1199), (15, 115, 1155)
 (a) (11, 111, 1000)
 (b) (33, 133, 1133)
 (c) (22, 222, 2222)
 (d) (77, 717, 7117)
64. (12, 51, 5), (6, 30, 2)
 (a) (14, 120, 16)
 (b) (13, 10, 7)
 (c) (19, 44, 3)
 (d) (11, 51, 6)
65. (52, 10, 41), (46, 18, 50)
 (a) (68, 26, 72)
 (b) (2, 5, 49)
 (c) (6, 4, 10)
 (d) (5, 4, 18)
66. 8: 448::9:: 11:847
 (a) 576 (b) 577
 (c) 567 (d) 562

67. (19, 23, 4), (13, 27, 14)

- (a) (156, 194, 79)
 (b) (61, 102, 61)
 (c) (25, 27, 2)
 (d) (138, 130, 73)

68. (56, 22, 26), (34, 20, 18)

- (a) (78, 54, 44)
 (b) (23, 8, 10)
 (c) (58, 16, 21)
 (d) (45, 12, 33)

69. (21, 225, 9), (12, 49, 2)

- (a) (14, 64, 2)
 (b) (11, 18, 7)
 (c) (15, 54, 3)
 (d) (13, 81, 6)

70. (76, 75, 1), (90, 87, 9)

- (a) (100, 85, 125)
 (b) (56, 48, 64)
 (c) (16, 4, 57)
 (d) (87, 56, 900)

71. 7: 330 :: ? : 203 :: 9:716

- (a) 14 (b) 16
 (c) 6 (d) 4

72. (56, 6, 34), (102, 27, 78)

- (a) (79, 51, 103)
 (b) (76, 34, 72)
 (c) (63, 23, 55)
 (d) (52, 22, 38)

73. 27: 713 :: 32:?? :: 35: 1029

- (a) 1024 (b) 1100
 (c) 1105 (d) 1008

74. (21, 33, 31), (42, 17, 26)

- (a) (36, 14, 35)
 (b) (46, 19, 24)
 (c) (35, 27, 29)
 (d) (32, 39, 20)

75. (4, 21, 33), (10, 111, 141)

- (a) (13, 45, 97)
 (b) (25, 53, 128)
 (c) (65, 60, 244)
 (d) (24, 52, 158)

76. 12: 132 :: 20: 380::2:?

- (a) 8 (b) 6
 (c) 12 (d) 2

77. 4:61::9: 726 :: 6:?

- (a) 356 (b) 316
 (c) 242 (d) 213

78. (5, 98, 9), (10, 168, 14)

- (a) (1, 28, 3)
 (b) (7, 108, 23)
 (c) (15, 248, 19)
 (d) (3, 88, 17)

79. Which option does NOT follow the same rule as in given number.

- (168, 122, 290)
 (a) (198, 112, 310)
 (b) (226, 148, 374)
 (c) (236, 118, 356)
 (d) (126, 132, 258)

80. 14:400 :: 37: ? :: 42:2304

- (a) 1333 (b) 1764
 (c) 1849 (d) 1521

81. (12, 313, 13), (11, 185, 8)

- (a) (12, 158, 12)
 (b) (4, 125, 11)
 (c) (9, 90, 3)
 (d) (15, 150, 10)

82. (6, 17, 408), (13, 27, 1404)

- (a) (9, 27, 245)
 (b) (17, 28, 952)
 (c) (5, 82, 1200)
 (d) (4, 26, 416)

83. 8:96::?: 54:: 12: 216

- (a) 8 (b) 6
 (c) 10 (d) 4

84. 16:20 :: 256: ? :: 49:56

- (a) 226 (b) 264
 (c) 278 (d) 272

85. (2, 4, 20), (4, 5, 41)

- (a) (9, 2, 86)
 (b) (4, 3, 25)
 (c) (5, 3, 32)
 (d) (7, 3, 59)

86. (76, 4, 9), (98, 2, 49)

- (a) (84, 12, 4)
 (b) (72, 4, 18)
 (c) (99, 3, 66)
 (d) (88, 2, 22)

87. (16, 7, 81), (24, 16, 64)

- (a) (13, 7, 36)
 (b) (48, 39, 18)
 (c) (37, 25, 100)
 (d) (21, 19, 8)

88. 68:19::76:21:: 164:?

- (a) 45 (b) 39
 (c) 43 (d) 41

89. (9, 343, 2), (12, 729, 3)

(a) (98, 49, 92)

(b) (13, 4, 89)

(c) (12, 66, 20)

(d) (12, 125, 7)

90. (3, 16, 6), (4, 22, 6)

(a) (12, 50, 5)

(b) (9, 70, 8)

(c) (7, 43, 6)

(d) (9, 10, 11)

91. (4, 7, 165), (14, 26, 600)

(a) (23, 29, 567)

(b) (5, 19, 225)

(c) (3, 6, 135)

(d) (17, 6, 325)

92. (5, 2, 23), (6, 2, 34)

(a) (3, 3, 3)

(b) (3, 2, 9)

(c) (3, 5, 11)

(d) (3, 2, 7)

93. (60, 17, 13), (62, 14, 17)

(a) (56, 15, 13)

(b) (43, 9, 12)

(c) (55, 18, 9)

(d) (57, 15, 14)

94. (4, 6, 9), (25, 10, 4)

(a) (23, 3, 32)

(b) (25, 20, 19)

(c) (6, 36, 216)

(d) (98, 7, 89)

95. 6:12::9:21::3:?

(a) 3

(b) 7

(c) 5

(d) 8

Answer Key :-

- | | | | | | |
|---------|---------|---------|---------|---------|---------|
| 1. (a) | 2. (b) | 3. (c) | 4. (c) | 5. (b) | 6. (c) |
| 7. (a) | 8. (b) | 9. (d) | 10. (b) | 11. (b) | 12. (c) |
| 13. (b) | 14. (a) | 15. (a) | 16. (c) | 17. (d) | 18. (a) |
| 19. (a) | 20. (b) | 21. (a) | 22. (d) | 23. (b) | 24. (d) |
| 25. (c) | 26. (b) | 27. (c) | 28. (d) | 29. (b) | 30. (d) |
| 31. (b) | 32. (a) | 33. (d) | 34. (b) | 35. (a) | 36. (b) |
| 37. (a) | 38. (b) | 39. (b) | 40. (a) | 41. (d) | 42. (d) |
| 43. (c) | 44. (d) | 45. (c) | 46. (a) | 47. (a) | 48. (d) |
| 49. (d) | 50. (b) | 51. (d) | 52. (d) | 53. (a) | 54. (c) |
| 55. (d) | 56. (d) | 57. (b) | 58. (c) | 59. (b) | 60. (c) |
| 61. (a) | 62. (b) | 63. (b) | 64. (d) | 65. (a) | 66. (c) |
| 67. (c) | 68. (a) | 69. (a) | 70. (b) | 71. (c) | 72. (b) |
| 73. (d) | 74. (a) | 75. (b) | 76. (d) | 77. (d) | 78. (a) |
| 79. (c) | 80. (c) | 81. (c) | 82. (d) | 83. (b) | 84. (d) |
| 85. (b) | 86. (b) | 87. (a) | 88. (c) | 89. (d) | 90. (b) |
| 91. (c) | 92. (d) | 93. (a) | 94. (c) | 95. (a) | |

Solution

- 1.(a) Logic : 1st no. = (2nd no.)² - (3rd no.)²
 (20,6,4) $\Rightarrow 20 = 6^2 - 4^2$
 (24,7,5) $\Rightarrow 24 = 7^2 - 2^2$
 Similarly,
 (65,9,4) $\Rightarrow 65 = 9^2 - 4^2$
- 2.(b) Logic : {n:(n-1)²}
 (19 : 324) $\Rightarrow (19-1)^2 = 324$
 (25 : 576) $\Rightarrow (25-1)^2 = 576$
 Similarly,
 (9 : ?) $\Rightarrow (9-1)^2 = 64$
- 3.(c) Logic : (2nd no. + 3rd no.) $\times 2$ = 1st no.
 (240,55,65) $\Rightarrow (55+65) \times 2 = 240$
 (320,85,75) $\Rightarrow (85+75) \times 2 = 320$
 Similarly,
 (160,35,45) $\Rightarrow (35 + 45) \times 2 = 160$
- 4.(c) Logic : a:b $\Rightarrow 5:3$
 In 35 : 21 $\Rightarrow \left(\frac{35}{7}\right) : \left(\frac{21}{7}\right) \Rightarrow 5:3$
 In 60 : 36 $\Rightarrow \left(\frac{60}{12}\right) : \left(\frac{36}{12}\right) \Rightarrow 5:3$
 In 40 : 24 $\Rightarrow \left(\frac{40}{8}\right) : \left(\frac{24}{8}\right) \Rightarrow 5:3$
- 5.(b) Logic : { n : n² : n³ }
 (9,81,729) $\Rightarrow (9, 9^2, 9^3)$
 (14,196,2744) $\Rightarrow (14, 14^2, 14^3)$
 Similarly,
 (17,289,4913) $\Rightarrow (17,17^2, 17^3)$
- 6.(c) Logic : 2nd number + 3rd number = 1st number
 (23,14,9) $\Rightarrow 14+9=23$
 (37,19,18) $\Rightarrow 19+18=37$
 Similarly,
 (125,25,100) $\Rightarrow 25+100=125$
- 7.(a) Logic : 2nd number $\times 3$ + 1st number = 3rd number
 (40,120,400) $\Rightarrow 40+120 \times 3 = 400$
 (18,20,78) $\Rightarrow 18+20 \times 3 = 78$
 Similarly,
 (29, 23, 98) $\Rightarrow 29+23 \times 3 = 98$
- 8.(b) Logic : 2nd number $\times 3$ + 1st number = 3rd number
 (16,7,37) $\Rightarrow 16+7 \times 3=37$
 (28,9,55) $\Rightarrow 28+9 \times 3=55$
 Similarly,
 (13,4,25) $\Rightarrow 13+4 \times 3=25$
- 9.(d) Logic : [(2 $\times$ 1st number) + 3rd number] = 2nd number
 In (4,13,5) $\Rightarrow (2 \times 4 + 5) = 13$
 In (3,12,6) $\Rightarrow (2 \times 3 + 6) = 12$
 Similarly,
 In (5,17,7) $\Rightarrow (2 \times 5 + 7) = 17$
- 10.(b) Logic: [(First number $\times$ Third number) + 1] = Second number
 In (4, 25, 6) $\Rightarrow (4 \times 6 + 1) = 25$
 In (8, 25, 3) $\Rightarrow (8 \times 3 + 1) = 25$
 Similarly,
 In (7, 22, 3) $\Rightarrow (7 \times 3 + 1) = 22$
- 11.(b) Logic: a: (a-1)²
 10 : (9)² = 81
 6 : (5)² = 25
 7 : (6)² = 36
- 12.(c) Logic - [First number $\times$ Second number = Third number]
 (11,13,143) $11 \times 13 = 143$
 (17, 11, 187) $17 \times 11 = 187$
 Similarly,
 (3, 4, 12) = $3 \times 4 = 12$
- 13.(b) Logic:- [Second number + Third number + 2 = First number]
 (15, 9, 4) = $9 + 4 + 2 = 15$
 (7,2,3) $2 + 3 + 2 = 7$
 Similarly,
 (19, 13, 4) $13 + 4 + 2 = 19$
- 14.(a) Logic - (First number)³ + (Second number)³ = Third number
 (3, 2, 35) $\Rightarrow 3^3 + 2^3 = 35$
 (1, 4, 65) $\Rightarrow 1^3 + 4^3 = 65$
 Similarly,
 (7, 2, 351) $\Rightarrow 7^3 + 2^3 = 351$
- 15.(a) Logic:- (1st no. - 3rd no.) $\times 5$ = 2nd no.
 (36, 90, 18) $\Rightarrow (36 - 18) \times 5 = 90$
 (15, 35, 8) $\Rightarrow (15 - 8) \times 5 = 35$
 Similarly,
 (14, 45, 5) $\Rightarrow (14 - 5) \times 5 = 45$

- 16.(c) Logic:- $[(2\text{nd no.} \times 4) + (3\text{rd no.} \times 4)] = 1\text{st no.}$
 $(452, 50, 63) \Rightarrow (50 \times 4) + (63 \times 4) = 452$
 $(260, 35, 30) \Rightarrow (35 \times 4) + (30 \times 4) = 260$
 Similarly,
 $(260, 50, 15) \Rightarrow (50 \times 4) + (15 \times 4) = 260$

- 17.(d) Logic:- $\frac{1\text{st no.} \times 3\text{rd no.}}{2} = 2\text{nd no.}$

$$(12, 42, 7) \Rightarrow \frac{12 \times 7}{2} = 42$$

$$(13, 52, 8) \Rightarrow \frac{13 \times 8}{2} = 52$$

$$(9, 18, 4) \Rightarrow \frac{9 \times 4}{2} = 18$$

- 18.(a) Logic: $(\text{First number} + \text{Third number}) \times 2 = \text{Second number}$
 $(26+34) \times 2 = 120$
 $(14+41) \times 2 = 110$
 Similarly,
 $(36+17) \times 2 = 106$

- 19.(a) Logic: $a : b \Rightarrow$ Their simplest form must be 5:8
 In $30:48 \Rightarrow (30 \div 6) : (48 \div 6) = 5:8$
 In $60:96 \Rightarrow (60 \div 12) : (96 \div 12) = 5:8$
 In $45:72 \Rightarrow (45 \div 9) : (72 \div 9) = 5:8$

- 20.(b) Logic: $(\text{First number} \times \text{Third number}) \div 4 = \text{Second number}$
 In $(8, 12, 6) : (8 \times 6) \div 4 = 12$
 In $(9, 18, 8) : (9 \times 8) \div 4 = 18$
 In $(12, 24, 8) : (12 \times 8) \div 4 = 24$

- 21.(a) Logic: $(n : n \times 8 + 6)$
 $(11:94) \Rightarrow (11:11 \times 8 + 6)$
 $(18:150) \Rightarrow (18:18 \times 8 + 6)$
 Similarly,
 $(23:190) \Rightarrow (23:23 \times 8 + 6)$

- 22.(d) Logic: $(2\text{nd number} \div 3\text{rd}) = 1\text{st number}$
 $(0.20, 5, 25) = 5 \div 25 = 0.20$
 $(0.083, 12, 144) = 12 \div 144 = 0.083$
 Similarly,
 $(0.063, 16, 256) = 16 \div 256 = 0.0625 = 0.063$

- 23.(b) Logic:- $\text{Third number} \times 2 = \text{Second number} + \text{First number}$
 Similarly,
 $(6, 22, 14) = 14 \times 2 = 22 + 6$
 $(8, 30, 19) = 19 \times 2 = 30 + 8$
 $(4, 18, 11) = 11 \times 2 = 18 + 4$

- 24.(d) Logic:- $\text{First number} \times \text{Second number} = \text{Third number}$
 $(22, 9, 198) \Rightarrow 22 \times 9 = 198$
 $(19, 7, 133) \Rightarrow 19 \times 7 = 133$
 $(26, 5, 130) \Rightarrow 26 \times 5 = 130$
 $(17, 9, 157) \Rightarrow 17 \times 9 = 153$ (not follows)
 $(28, 7, 196) \Rightarrow 28 \times 7 = 196$

- 25.(c) Logic :- $(\text{First number} - \text{Third number}) = \text{Second number}$
 $(70, 14, 56) = 70 - 56 = 14$
 $(88, 30, 58) = 88 - 58 = 30$
 Similarly,
 $(52, 19, 33) = 52 - 33 = 19$

- 26.(b) Logic:- $2 \times (\text{First number})^2 = \text{Second number}$
 $(8:128) = 2 \times (8)^2 = 128$
 $(11:242) = 2 \times (11)^2 = 242$
 Similarly,
 $(6:72) = 2 \times (6)^2 = 72$

- 27.(c) Logic:- $(\text{First number} - 2)^2 = \text{Second number}$
 $(7:25) \Rightarrow (7-2)^2 = 25$
 $(4:4) \Rightarrow (4-2)^2 = 4$
 Similarly,
 $(3:?) \Rightarrow (3-2)^2 = 1$

- 28.(d) Logic: $(a : a^2 : a^2 + a)$
 In $(5:25:30) \Rightarrow 5 : (5)^2 = 25 : (5^2 + 5) = 30$
 In $(16:256:272) \Rightarrow 16 : (16)^2 = 256 : (16^2 + 16) = 272$
 In $(13:169:182) \Rightarrow 13 : (13)^2 = 169 : (13^2 + 13) = 182$

- 29.(b) Logic : $a : \sqrt[3]{ax} (\sqrt[3]{a} + 1)$
 In $729 : 90 \rightarrow 729 : \sqrt[3]{729} \times (\sqrt[3]{729} + 1) = 90$
 In $343 : 56 \rightarrow 343 : \sqrt[3]{343} \times (\sqrt[3]{343} + 1) = 56$
 In $512 : 72 \rightarrow 512 : \sqrt[3]{512} \times (\sqrt[3]{512} + 1) = 72$

- 30.(d) Logic: $a : a \times (a^2 - a - 1)$
 In $17: 4607 \Rightarrow 17: 17 \times (17^2 - 17 - 1) = 4607$
 In $11: 1199 \Rightarrow 11: 11 \times (11^2 - 11 - 1) = 1199$
 In $23:11615 \Rightarrow 23: 23 \times (23^2 - 23 - 1) = 11615$

- 31.(b) Logic: $(n : n \times 9 - 8)$
 $(11:91) \Rightarrow (11:11 \times 9 - 8)$
 $(15:127) \Rightarrow (15:15 \times 9 - 8)$
 Similarly, $(18:154) \Rightarrow (18:18 \times 9 - 8)$

32.(a) Logic: $\{n: n \times 7 : n \times 9\}$
 $(23, 161, 207) \Rightarrow (23: 23 \times 7: 23 \times 9)$
 $(47, 329, 423) \Rightarrow (47: 47 \times 7: 47 \times 9)$
 Similarly,
 $(64, 448, 576) \Rightarrow (64: 64 \times 7: 64 \times 9)$

33.(d) Logic: $\{n: n(n-5)\}$
 $(18:234) \Rightarrow (18:18 \times 13)$
 $(14:126) \Rightarrow (14:14 \times 9)$
 Similarly,
 $(16:176) \Rightarrow (16:16 \times 11)$

34.(b) Logic used:- $(1st\ no. - 1)^3 = 2nd\ no.$
 $6:125 \Rightarrow (6-1)^3 = 125$
 $2:1 \Rightarrow (2-1)^3 = 1$
 $6:4 \Rightarrow (5-1)^3 = 64$

35.(a) Logic used:- $(1st\ no.)^2 + (3rd\ no.)^2 = 2nd\ no.$
 $(5,41,4) \Rightarrow (5)^2 + (4)^2 = 41$
 $(2,68,8) \Rightarrow (2)^2 + (8)^2 = 68$
 Similarly,
 $(6,100,8) \Rightarrow (6)^2 + (8)^2 = 100$

36.(b) Logic: $(1st\ no. + \sqrt{3rd\ no.}) = 2nd\ no.$
 $In(2, 8, 36) \Rightarrow (2 + \sqrt{36}) = 8$
 $In(4, 9, 25) \Rightarrow (4 + \sqrt{25}) = 9$
 Similarly,
 $(13, 20, 49) \Rightarrow (13 + \sqrt{49}) = 20$

37.(a) Logic: $(1st\ no.)^2 + 3rd\ no. = (2nd\ no.)^2$
 $In(7, 11, 72) \Rightarrow (7)^2 + 72 = (11)^2$
 $In(5, 8, 39) \Rightarrow (5)^2 + 39 = (8)^2$
 Similarly,
 $In(4, 7, 33) \Rightarrow (4)^2 + 33 = (7)^2$

38.(b) Logic: $(2nd\ no. + 3rd\ no.) = 1st\ no.$
 $In(267, 128, 139) \Rightarrow (128+139) = 267$
 $In(267, 132, 135) \Rightarrow (132+135) = 267$
 $In(325, 112, 215) \Rightarrow (112+215) = 325$
 $In(365, 154, 211) \Rightarrow (154+211) = 365$
 $In(297, 146, 151) \Rightarrow (146+151) = 297$
 Hence, we can clearly see that, (325, 112, 215) is not following the pattern.

39.(b) Logic: $(First\ number + Third\ number)^3 = Second\ number$
 $(2, 125, 3) \Rightarrow (2+3)^3 = 125$
 $(1, 64, 3) \Rightarrow (1+3)^3 = 64$
 Similarly,
 $(5, 512, 3) \Rightarrow (5+3)^3 = 512$

40.(a) Pattern follows:- $(2nd \times 5) + 2 = 1st$
 $(9 \times 5) + 2 = 47$
 $(14 \times 5) + 2 = 72$
 $(18 \times 5) + 2 = 92$

41.(d) Pattern follows:- First num $\times$ Second num = Third num
 $(16, 7, 112) \Rightarrow 16 \times 7 = 112$
 $(18, 3, 54) \Rightarrow 18 \times 3 = 54$
 $(14, 5, 70) \Rightarrow 14 \times 5 = 70$
 $(22, 7, 154) \Rightarrow 22 \times 7 = 154$
 $(26, 5, 132) \Rightarrow 26 \times 5 = 130$ (not follows)

42.(d) Logic used:- { First num $\times$ (First num-2) = Second num}
 $(12:120) = 12 \times (12-2) = 120$
 $(20:360) = 20 \times (20-2) = 360$
 Similarly,
 $(3:3) = 3 \times (3-2) = 3$

43.(c) Logic: $(n: nx2-1)$
 $(7:13) \Rightarrow (7:7 \times 2-1)$
 $(16:31) \Rightarrow (16:16 \times 2-1)$
 Similarly,
 $(46:91) \Rightarrow (46:46 \times 2-1)$

44.(d) Logic: $(1st\ no. \times 2nd\ no.) \times 2 = 3rd\ no.$
 $(7, 4, 56) \Rightarrow 7 \times 4 \times 2 = 56$
 $(8, 3, 48) \Rightarrow 8 \times 3 \times 2 = 48$
 Similarly,
 $(9,10,180) \Rightarrow 9 \times 10 \times 2 = 180$

45.(c) Logic: $(1st\ number - 3rd\ number)^2 = 2nd\ number$
 $(9,16,5) \Rightarrow (9-5)^2 = 16$
 $(7,9,4) \Rightarrow (7-4)^2 = 9$
 Similarly,
 $(11,36,5) \Rightarrow (11-5)^2 = 36$

46.(a) Logic: $(2 \times First\ number + Second\ number) = Third\ number$
 $In(17, 24, 58) :- (2 \times 17 + 24) = 58$
 $In(26, 37, 89) :- (2 \times 26 + 37) = 89$
 Similarly,
 $(15, 17, 47) :- (2 \times 15 + 17) = 47$

47. (a) Logic: $(First\ number \times Third\ number) \div 2 = Second\ number$
 $In(13, 39, 6) :- (13 \times 6) \div 2 = 39$
 $In(9, 18, 4) :- (9 \times 4) \div 2 = 18$
 $In(12, 48, 8) :- (12 \times 8) \div 2 = 48$

48.(d) Logic: (First number - Second number) $\times$ 4 = Third number

$$\text{In } (45, 15, 120):- (45 - 15) \times 4 = 120$$

$$\text{In } (27, 8, 76) :- (27 - 8) \times 4 = 76$$

$$\text{In } (56, 48, 32) :- (56 - 48) \times 4 = 32$$

49.(d) Pattern follows:- { First num $\times$ Third num} + 4 = Second num

$$(12, 112, 9) \Rightarrow \{12 \times 9\} + 4 = 112$$

$$(10, 84, 8) \Rightarrow \{10 \times 8\} + 4 = 84$$

Similarly,

$$(18, 94, 5) \Rightarrow \{18 \times 5\} + 4 = 94$$

50.(b) Logic-a: $a^3 + a^2 + a$

$$\text{In } (4:84)? \quad 4^3 + 4^2 + 4 = 84$$

$$\text{In } (11:1463)? \quad 11^3 + 11^2 + 11 = 1463$$

$$\text{In } (13:2379)? \quad 13^3 + 13^2 + 13 = 2379$$

51.(d) Logic: (First number + 10 = Second number) and (Second number + 5 = Third number)

$$\text{In } (3, 13, 18) \Rightarrow +10=13 \text{ and } 13+5=18$$

$$\text{In } (29, 39, 44) \Rightarrow 29+10=39 \text{ and } 39+5=44$$

Similarly,

$$\text{In } (16, 26, 31) \Rightarrow 16+10=26 \text{ and } 26+5=31$$

52.(d) Logic:- a: $(a)^3$

$$\text{In } (15:125) \Rightarrow 15: \frac{(15)^3}{3} = 125$$

$$\text{In } (27:729) \Rightarrow 27: \frac{(27)^3}{3} = 729$$

Similarly,

$$\text{In } (36:1728) \Rightarrow 36: \frac{(36)^3}{3} = 1728$$

53.(a) Logic: (Second number + Third number) $\times$ 2 = First number

$$\text{In } (42, 18, 3) :- (18 + 3) \times 2 = 42$$

$$\text{In } (36, 14, 4) :- (14 + 4) \times 2 = 36$$

Similarly,

$$\text{In } (34, 13, 4) :- (13 + 4) \times 2 = 34$$

54.(c) Logic: a : $\sqrt{a} \times 3$

$$\text{In } 144 : 36 :- 144 : \sqrt{144} \times 3 = 36$$

$$\text{In } 81 : 27 :- 81 : \sqrt{81} \times 3 = 27$$

Similarly,

$$\text{In } 196 : 42 :- 196 : \sqrt{196} \times 3 = 42$$

55.(d) Logic: (First number + Third number)² $\div$ 2 = Second number

$$\text{In } (4, 50, 6):- (4 + 6) \times (4 + 6) = 50$$

$$\text{In } (13, 128, 3):- (13 + 3) \times (13 + 3) = 128$$

Similarly,

$$\text{In } (15, 162, 3) :- (15 + 3) \times (15 + 3) = 162$$

56.(d) Logic used:- { First num $\times$ 3} - 2 = Second num.

$$(11:31) \Rightarrow \{11 \times 3\} - 2 = 31$$

$$(14 : 40) \Rightarrow \{14 \times 3\} - 2 = 40$$

Similarly,

$$(9:25) \Rightarrow \{9 \times 3\} - 2 = 25$$

57.(b) Logic: (n $\times$ 4 : n - 8)

$$(76:11) \Rightarrow (19 \times 4:19 - 8)$$

$$(68:9) \Rightarrow (17 \times 4 : 17 - 8)$$

Similarly,

$$(88:14) \Rightarrow (22 \times 4 : 22 - 8)$$

58.(c) Logic: (Second number $\times$ Third number) $\times$ 2 = First number i.e.

$$\text{In } (60, 5, 6):- (5 \times 6) \times 2 = 60$$

$$\text{In } (48, 8, 3):- (8 \times 3) \times 2 = 48$$

Similarly,

$$\text{In } (24, 4, 3):- (4 \times 3) \times 2 = 24$$

59.(b) Logic: (Second number + Third number)² = First number

$$\text{In } (144, 9, 3) :- (9 + 3)^2 = 144$$

$$\text{In } (225, 7, 8) :- (7 + 8)^2 = 225$$

Similarly,

$$\text{In } (64, 5, 3) :- (5 + 3)^2 = 64$$

60.(c) Logic: (First number + Third number) $\div$ 2 = Second number

$$\text{In } (71, 37, 3) (71 + 3) \div 2 = 37$$

$$\text{In } (34, 23, 12) (34 + 12) \div 2 = 23$$

Similarly,

$$\text{In } (19, 55, 91) (19 + 91) \div 2 = 55$$

61.(a) Logic: (First number + Second number)² $\div$ 2 = Third number

$$\text{In } (2, 4, 18) \Rightarrow (2 + 4)^2 \div 2 = 18$$

$$\text{In } (1, 9, 50) \Rightarrow (1 + 9)^2 \div 2 = 50$$

Similarly,

$$\text{In } (3, 5, 32) \Rightarrow (3 + 5)^2 \div 2 = 32$$

62.(b) Logic:- (First number $\times$ Third number = Second number)

$$\text{In } (5, 35, 7) \Rightarrow 5 \times 7 = 35$$

$$\text{In } (8, 32, 4) \Rightarrow 8 \times 4 = 32$$

Similarly,

$$\text{In } (3, 27, 9) \Rightarrow 3 \times 9 = 27$$

63.(b) Logic:- First number + 100 = Second number + 1000 = Third number
 In (99, 199, 1199) $\Rightarrow 99+100=199$,
 $199+1000=1199$
 In (15, 115, 1115) $\Rightarrow 15+100=115$,
 $115+1000 = 1115$
 Similarly,
 (33,133,1133) $\Rightarrow 33 + 100 =$
 $133,133 ,1000 =1133$

64.(d) Logic used:- (First num + Third num) $\times$ 3 = Second num
 (12, 51, 5) $\Rightarrow (12 + 5) \times 3 = 51$
 (8, 30, 2) $\Rightarrow (8 + 2) \times 3 = 30$
 Similarly,
 (11, 51, 6) $\Rightarrow (11+6) \times 3 = 51$

65.(a) Logic : $\frac{(1st\ no.+ 3 \times 2nd\ no.)}{2} = 3rd\ no.$

$$(52, 10, 41) \Rightarrow \frac{(52 + 3 \times 10)}{2} = 41$$

$$(46, 18, 50) \Rightarrow \frac{(46 + 3 \times 18)}{2} = 50$$

$$(68, 26, 73) \Rightarrow \frac{(68 + 3 \times 26)}{2} = 73$$

66.(c) Logic: $a : a \times (a \times 7)$
 In (8:448) $\Rightarrow 8:8 \times (8 \times 7) = 448$
 In (9:567) $\Rightarrow 9:9 \times (9 \times 7) = 567$
 In (11:847) $\Rightarrow 11:11 \times (11 \times 7) = 847$

67.(c) Logic: First number + Third number = Second number
 In (13, 27, 14) $\Rightarrow 13+14=27$
 In (19, 23, 4) $\Rightarrow 19+4=23$
 Similarly,
 In (25, 27, 2) $\Rightarrow 25+2=27$

68.(a) Logic - (Third number $\times$ 3 - Second number) = First number
 (56,22,26) $\Rightarrow (26 \times 3 - 22) = 56$
 (34,20,18) $\Rightarrow (18 \times 3 - 20) = 34$
 Similarly,
 (78,54,44) $\Rightarrow (44 \times 3 - 54) = 78$

69.(a) Logic :- 1st no. + 3rd no. $\div 2 = \sqrt{2nd\ no.}$

$$(21,225,9) \Rightarrow \frac{(21 + 9)}{2} = \sqrt{225}$$

$$(12,49,2) \Rightarrow \frac{(12 + 2)}{2} = \sqrt{49}$$

Similarly,

$$(14,64,2) \Rightarrow \frac{(14 + 2)}{2} = \sqrt{64}$$

70.(b) Logic: Second number + $\sqrt{\text{Third number}}$ = First number

$$(76,75,1) \Rightarrow 75 + \sqrt{1} = 76$$

$$(90,87,9) \Rightarrow 87 + \sqrt{9} = 90$$

Similarly,

$$(56,48,64) \Rightarrow 48 + \sqrt{64} = 56$$

71.(c) Logic:- $a : (a^3) - 13$

$$\text{In } 7 : 330 \Rightarrow 7^3 - 13 = 330$$

$$\text{In } 6 : 203 \Rightarrow 6^3 - 13 = 203$$

$$\text{In } 9 : 716 \Rightarrow 9^3 - 13 = 716$$

72.(b) Logic: (Third number - Second number) $\times$ 2 = First number

$$\text{In } (56,6,34) \Rightarrow (34 - 6) \times 2 = 56$$

$$\text{In } (102,27,78) \Rightarrow (78 - 27) \times 2 = 102$$

Similarly,

$$\text{In } (76,34,72) \Rightarrow (72 - 34) \times 2 = 76$$

73.(d) Logic: $a : a^2 - 16$

$$\text{In } (27:713) \Rightarrow 27^2 - 16 = 713$$

$$\text{In } (32:1008) \Rightarrow 32^2 - 16 = 1008$$

$$\text{In } (35:1209) \Rightarrow 35^2 - 16 = 1209$$

74.(a) Logic: sum of all given number = 85

$$(21,33,31) \Rightarrow 21 + 33 + 31 = 85$$

$$(42,17,26) \Rightarrow 42 + 17 + 26 = 85$$

Similarly,

$$(36,14,35) \Rightarrow 36 + 14 + 35 = 85$$

75.(b) Logic (1st number $\times$ 3 + 2nd) = 3rd number

$$(4,21,33) \Rightarrow (4 \times 3 + 21) = 33$$

$$(10,111,141) \Rightarrow (10 \times 3 + 111) = 141$$

Similarly,

$$(25,53,128) \Rightarrow (25 \times 3 + 53) = 128$$

76.(d) Logic - (1st no.) $\times$ (1st no. - 1) = 2nd no.

$$(12:132) \Rightarrow (12) \times (12 - 1) = 132$$

$$(20:380) \Rightarrow (20) \times (20 - 1) = 380$$

Similarly,

$$(2:2) \Rightarrow (2) \times (2 - 1) = 2$$

77.(d) Logic used:- $\{(First\ num)^3 - 3 = Second\ num\}$

$$(4:61) \Rightarrow (4)^3 - 3 = 61$$

$$(9:726) \Rightarrow (9)^3 - 3 = 726$$

Similarly,

$$(6:213) \Rightarrow (6)^3 - 3 = 213$$

78.(a) Logic used:- $\{First\ num + last\ num\} \times 7 = Second\ num$

$$(5,98,9) \Rightarrow \{9+5\} \times 7 = 98$$

$$(10,168,14) \Rightarrow \{10+14\} \times 7 = 168$$

Similarly,

$$(1,28,3) \Rightarrow \{3+1\} \times 7 = 28$$

79.(c) Logic: First number + Second number = Third number

$$\text{In } (168, 122, 290) \Rightarrow 168+122=290$$

$$\text{In } (198, 112, 310) \Rightarrow 198+112=310$$

$$\text{In } (226, 148, 374) \Rightarrow 226+148=374$$

$$\text{In } (126, 132, 258) \Rightarrow 126+132=258$$

Hence, we can clearly see that, (236, 118,356) is not following the pattern.

80.(c) Logic: $a : (a + 6)^2$

$$\text{In } (14:400) \Rightarrow 14 : (14 + 6)^2 = 400$$

$$\text{In } (37:1849) \Rightarrow 37 : (37 + 6)^2 = 1849$$

$$\text{In } (42: 2304) \Rightarrow 42: (42 + 6)^2 = 2304$$

81.(c) Logic: $(First\ number)^2 + (Third\ number)^2 = Second\ number$

$$\text{In } (12, 313, 13):- (12)^2 + (13)^2 = 313$$

$$\text{In } (11, 185, 8):- (11)^2 + (8)^2 = 185$$

Similarly,

$$\text{In } (9, 90, 3) :- (9)^2 + (3)^2 = 90$$

82.(d) Logic: First number $\times$ Second number $\times$ 4 = Third number

$$\text{In } (6, 17, 408) \rightarrow 6 \times 17 \times 4 = 408$$

$$\text{In } (13, 27, 1404) \rightarrow 13 \times 27 \times 4 = 1404$$

Similarly,

$$\text{In } (4, 26, 416) \rightarrow 4 \times 26 \times 4 = 416$$

83.(b) Logic: $a : a \times (a + \frac{a}{2})$

$$\text{In } 8 : 96 :- 8 \times (8 + \frac{8}{2}) = 96$$

$$\text{In } 6 : 54 :- 6 \times (6 + \frac{6}{2}) = 54$$

$$\text{In } 12 : 216 :- 12 \times (12 + \frac{12}{2}) = 216$$

84.(d) Logic used:- First num +

$$\sqrt{\text{First number}} = \text{Second num}$$

$$(16:20) \Rightarrow 16 + \sqrt{16} = 20$$

$$(49:56) \Rightarrow 49 + \sqrt{49} = 56$$

Similarly,

$$(256:272) \Rightarrow 256 + \sqrt{256} = 272$$

85.(b) Logic used:- $(First\ num)^2 + (Second\ num)^2 = Third\ num$

$$(2,4,20) \Rightarrow (2)^2 + (4)^2 = 20$$

$$(4,5,41) \Rightarrow (4)^2 + (5)^2 = 41$$

Similarly,

$$(4,3,25) \Rightarrow (4)^2 + (3)^2 = 25$$

86.(b) Logic used:- $\{First\ num = Second\ num \times Third\ num\}$

$$(76, 4, 19) \Rightarrow 76=4 \times 19$$

$$(98, 2, 49) \Rightarrow 98=2 \times 49$$

Similarly,

$$(72, 4, 18) \Rightarrow 72=18 \times 4$$

87.(a) Logic: $(First\ number - Second\ number)^2 = Third\ number$

$$\text{In } (16, 7, 81) :- (16 - 7)^2 = 81$$

$$\text{In } (24, 16, 64) :- (24 - 16)^2 = 64$$

Similarly,

$$\text{In } (13, 7, 36) :- (13 - 7)^2 = 36$$

88.(c) Logic: $a : (a + 8) \div 4$

$$\text{In } 68:19 \Rightarrow 68 : (68 + 8) \div 4 = 19$$

$$\text{In } 76:21 \Rightarrow 76 : (76 + 8) \div 4 = 21$$

Similarly,

$$164:43 \Rightarrow 164 : (164 + 8) \div 4 = 43$$

89.(d) Logic used:- $(First\ num - Third\ num)^3 = Second\ num$

$$(9,343,2) \Rightarrow (9 - 2)^3 = 343$$

$$(12,729,3) \Rightarrow (12 - 3)^3 = 729$$

Similarly,

$$(12,125,7) \Rightarrow (12 - 7)^3 = 125$$

90.(b) Logic used:- $(First\ num \times Third\ num) - 2 = Second\ num$

$$(3,16,6) \Rightarrow (3 \times 6) - 2 = 16$$

$$(4,22,6) \Rightarrow (4 \times 6) - 2 = 22$$

Similarly,

$$(9,70,8) \Rightarrow (9 \times 8) - 2 = 70$$

- 91.(c) Logic used:- (First num + Second num)
 $\times 15 = \text{Third num}$
 $(4, 7, 165) \Rightarrow (4 + 7) \times 15 = 165$
 $(14, 26, 600) \Rightarrow (14 + 26) \times 15 = 600$
Similarly,
 $(3, 6, 135) \Rightarrow (3 + 6) \times 15 = 135$
- 92.(d) $(5, 2, 23) = 5^2 - 2 = 23$
 $(6, 2, 34) = 6^2 - 2 = 34$
Similarly,
 $(3, 2, 7) = 3^2 - 2 = 7$
- 93.(a) Logic - (Second number + Third number) $\times 2 = \text{First number}$
 $(60, 17, 13) = (13 + 17) \times 2 = 60$
 $(62, 14, 17) = (14 + 17) \times 2 = 62$
Similarly, in option (a),
 $(56, 15, 13) = (15 + 13) \times 2 = 56$
- 94.(c) Logic :- 3rd no. $\times$ 1st no. = (2nd no.)²
 $(4, 6, 9) = 9 \times 4 = 6^2$
 $(25, 10, 4) = 4 \times 25 = 10^2$
Similarly,
 $(6, 36, 216) = 216 \times 6 = 36^2$
- 95.(a) Logic :- 1st no. $\times 3 - 6 = \text{2nd no.}$
 $6 \times 3 - 6 = 12$
 $9 \times 3 - 6 = 21$
Similarly,
 $3 \times 3 - 6 = 3$