

**50
IMPORTANT
NUMBER
SERIES
QUESTIONS**

**For Bank,
Insurance, SSC,
Railways & Other
Government
Exams**

50 Important Missing Number Series Questions

1) 3, 7, 29, 143, 779, ?

- a) 4997
- b) 4649
- c) 4847
- d) 4799
- e) 4999

Answer & Solution: d

The series is

$$x_2 + 1^3, x_3 + 2^3, x_4 + 3^3, x_5 + 4^3, x_6 + 5^3$$

$$3 \times 2 + 1^3 = 7,$$

$$7 \times 3 + 2^3 = 29,$$

$$29 \times 4 + 3^3 = 143,$$

$$143 \times 5 + 4^3 = 779,$$

$$779 \times 6 + 5^3 = 4799$$

2) 4, 5, ?, 88, 620, 5585

- a) 16
- b) 18
- c) 17
- d) 20
- e) 22

Answer & Solution: c

The series is

$$x_1 + 1, x_3 + 2, x_5 + 3, x_7 + 4, x_9 + 5, x_{11} + 6,$$

$$4 \times 1 + 1 = 5,$$

$$5 \times 3 + 2 = 17,$$

$$17 \times 5 + 3 = 88,$$

$$88 \times 7 + 4 = 620,$$

$$620 \times 9 + 5 = 5585$$

3) 11, 20, 42, ?, 166, 330

a) 72

b) 66

c) 86

d) 80

e) 82

Answer & Solution: e

The series is

$x2 - 2, x2 + 2$, (Alternately Repeated)

4) 128, 64, 96, 240, ?, 3780

a) 740

b) 840

c) 850

d) 845

e) 745

Answer & Solution: b

The series is

$x0.5, x1.5, x2.5, x3.5, x4.5$

5) 8484, ?, 8486, 8495, 8488, 8493

- a) 8485
- b) 8584
- c) 8684
- d) 8497
- e) 8496

Answer & Solution: d

The series is

+13, -11, +9, -7, +5

6) 68, 132, 268, ?, 1068, 2132

- a) 394
- b) 464
- c) 325
- d) 532
- e) 484

Answer & Solution: d

The series is

$x^2 - 4$, $x^2 + 4$, (Repeated)

7) 23, 12, 13, 21, ?, 112.5

- a) 33
- b) 44
- c) 55
- d) 66
- e) 65

Answer & Solution: b

The series is

$\times 0.5+0.5, \times 1+1, \times 1.5+1.5, \times 2+2, \times 2.5+2.5$

8) 8, 10, 18, 44, 124, ?

a) 366

b) 263

c) 194

d) 276

e) 286

Answer & Solution: a

8	10	18	44	124	366
	+2	+8	+26	+80	+242
		+6	+18	+54	+162
			x3	x3	x3

9) 4, 4, 21, 68, ?, 2154

a) 435

b) 365

c) 462

d) 572

e) 425

Answer & Solution: b

4	4	21	68	365	2154
$(\times 2-2^2)$	$(\times 3+3^2)$	$(\times 4-4^2)$	$(\times 5-5^2)$	$(\times 6-6^2)$	

10) 7, 20, 59, 176, ?, 1580

- a) 527
- b) 526
- c) 627
- d) 562
- e) 270

Answer & Solution: a

The series is

$\times 3 - 1, \times 3 - 1$ (Repeated)

$$7 \times 3 = 21 - 1 = 20$$

$$20 \times 3 = 60 - 1 = 59$$

$$59 \times 3 = 177 - 1 = 176$$

$$176 \times 3 = 528 - 1 = 527$$

11) 6 -3 24 -57 186 ?

- a) -582
- b) 475
- c) 627
- d) 545
- e) -543

Answer & Solution: e

The series is

$x-3 +15, x-3 +15$, (Repeated)

$$6 \times -3 + 15 = -3,$$

$$-3 \times -3 + 15 = 24,$$

$$24 \times -3 + 15 = -57,$$

$$-57 \times -3 + 15 = 186,$$

$$186 \times -3 + 15 = -543$$

12) 4 8 14 23 36.5 ?

- a) 124
- b) 91.75
- c) 108.5
- d) 84.5
- e) 56.75

Answer & Solution: e

The series is

$x1.5 + 2$ (Repeated)

$$4 \times 1.5 + 2 = 8,$$

$$8 \times 1.5 + 2 = 14,$$

$$14 \times 1.5 + 2 = 23,$$

$$23 \times 1.5 + 2 = 36.5,$$

$$36.5 \times 1.5 + 2 = 56.75,$$

13) 9 5 6 10.5 23 ?

- a) 60
- b) 16
- c) 18.5
- d) 42.5
- e) 32.5

Answer & Solution: a

The series is

$x0.5 + 0.5, x1 + 1, x1.5 + 1.5, x2 + 2, x2.5 + 2.5$

$$9 \times 0.5 + 0.5 = 5,$$

$$5 \times 1 + 1 = 6,$$

$$6 \times 1.5 + 1.5 = 10.5,$$

$$10.5 \times 2 + 2 = 23,$$

$$23 \times 2.5 + 2.5 = 60.$$

14) 1 19 55 112 193 ?

a) 301

b) 336

c) 330

d) 252

e) 636

Answer & Solution: a

The series is

1	19	55	112	193	301
	+18	+36	+57	81	+108
	+18	+21	+24	+27	
		+3	+3	+3	

15) 3 7 15 31 63 ?

a) 95

b) 125

c) 128

d) 127

e) 98

Answer & Solution: d

The series is $x2 + 1$ (Repeated)

$$3 \times 2 + 1 = 7,$$

$$7 \times 2 + 1 = 15,$$

$$15 \times 2 + 1 = 31,$$

$$31 \times 2 + 1 = 63,$$

$$63 \times 2 + 1 = 127$$

16) 13 27 56 ? 234 473

a) 110

b) 112

c) 115

d) 120

e) 80

Answer & Solution: c

The series is

$$13 \times 2 + 1 = 27,$$

$$27 \times 2 + 2 = 56,$$

$$56 \times 2 + 3 = 115,$$

$$115 \times 2 + 4 = 234,$$

$$234 \times 2 + 5 = 473$$

17) 48 144 288 864 1728 ?

a) 5164

b) 4185

c) 5284

d) 5184

e) 5418

Answer & Solution: d

The series is

$\times 3, \times 2$, (alternatively)

18) 46656 1156 32768 ? 21952 676

a) 861

b) 900

c) 2700

d) 961

e) 841

Answer & Solution: b

The series is

$(36)^3, (34)^2, (32)^3, (30)^2, (28)^3, (26)^2$

$(36)^3 = 46656,$

$(34)^2 = 1156,$

$(32)^3 = 32768,$

$(30)^2 = 900,$

$(28)^3 = 21952,$

$(26)^2 = 676$

19) 4 14 32 60 ? 154

a) 90

b) 80

c) 95

d) 100

e) 108

Answer & Solution: d

The series is

$$+3^2 + 1, +4^2 + 2, +5^2 + 3, +6^2 + 4, +7^2 + 5$$

$$4 + 3^2 + 1 = 14,$$

$$14 + 4^2 + 2 = 32,$$

$$32 + 5^2 + 3 = 60,$$

$$60 + 6^2 + 4 = 100,$$

$$100 + 7^2 + 5 = 154$$

20) 56 ? 80 102 128 161

a) 66

b) 67

c) 77

d) 75

e) 87

Answer & Solution: b

The series is

$$+11, +13, +22, +26, +33, +39$$

$$56 + 11 = 67,$$

$$67 + 13 = 80,$$

$$80 + 22 = 102,$$

$$102 + 26 = 128,$$

$$128 + 33 = 161,$$

$$161 + 39 = 200$$

21) 3, 732, 1244, 1587, 1803, 1928, ?

- a) 2144
- b) 1999
- c) 1995
- d) 2053
- e) None of these

Answer & Solution: e

The series is

$$+9^3 +8^3 +7^3 +6^3 +5^3 +4^3$$

22) 16, 24, ?, 210, 945, 5197.5, 33783.76

- a) 40
- b) 36
- c) 58
- d) 60
- e) None of these

Answer & Solution: d

The Series is

$$\times 1.5 \quad \times 2.5 \quad \times 3.5 \quad \times 4.5 \quad \times 5.5 \quad \times 6.5$$

23) 5, 12, 36, 123, ?, 2555, 15342

- a) 508
- b) 381
- c) 504
- d) 635
- e) None of these

Answer & Solution: a

$$5 \times 1 + 1 \times 7 = 12$$

$$12 \times 2 + 2 \times 6 = 36$$

$$36 \times 3 + 3 \times 5 = 123$$

$$123 \times 4 + 4 \times 4 = 508$$

$$508 \times 5 + 5 \times 3 = 2555$$

$$2555 \times 6 + 6 \times 2 = 15342$$

24) 8, 11, 17, ?, 65, 165.5, 498.5

a) 27.5

b) 32

c) 28

d) 30.5

e) None of these

Answer & Solution: d

$$8 \times 0.5 + 7 = 11$$

$$11 \times 1 + 6 = 17$$

$$17 \times 1.5 + 5 = 30.5$$

$$30.5 \times 2 + 4 = 65$$

$$65 \times 2.5 + 3 = 165.5$$

$$165.5 \times 3 + 2 = 498.5$$

25) 9, 15, 27, 51, 99, ?

a) 165

b) 195

c) 180

d) 190

e) None of these

Answer & Solution: b

9	15	27	51	99	195
(×2-3)	(×2-3)	(×2-3)	(×2-3)	(×2-3)	

26) 13, 21, 36, 58, 87, ?

- a) 122
- b) 128
- c) 133
- d) 123
- e) None of these

Answer & Solution: d

13	21	36	58	87	123
+8	+15	+22	+29	+36	
	+7	+7	+7	+7	

27) 7, 9, 19, 45, 95, ?

- a) 150
- b) 160
- c) 145
- d) 177
- e) None of these

Answer & Solution: d

$$7 + (1)^2 + 1 = 9$$

$$9 + (3)^2 + 1 = 19$$

$$19 + (5)^2 + 1 = 45$$

$$45 + (7)^2 + 1 = 95$$

$$95 + (9)^2 + 1 = 177$$

28) 14, 15, 23, 32, 96, ?

- a) 121
- b) 124
- c) 152
- d) 111
- e) None of these

Answer & Solution: a

The series is

$$+1^2 \quad +2^2 \quad +3^2 \quad +4^2 \quad +5^2$$

29) 20, 24, 36, 56, 84, ?

- a) 116
- b) 124
- c) 120
- d) 128
- e) None of these

Answer & Solution: c

The series is

20	24	36	56	84	120
	$+(4 \times 1)$	$+(4 \times 3)$	$+(4 \times 5)$	$+(4 \times 7)$	$+(4 \times 9)$

30) 117, 389, 525, 593, 627, ?

- a) 654
- b) 640
- c) 6
- d) 630
- e) None of these

Answer & Solution: e

117	389	525	593	627	644
	+272	+136	+68	+34	+17

31) 1 2 6 15 31 56 ?

- a) 96
- b) 94
- c) 98
- d) 92
- e) 99

Answer & Solution: d

The pattern of the number series is

$$1 + (1)^2 = 2,$$

$$2 + (2)^2 = 6,$$

$$6 + (3)^2 = 15,$$

$$15 + (4)^2 = 31,$$

$$31 + (5)^2 = 56,$$

$$56 + (6)^2 = 92$$

32) 41 39 43 37 45 ?

- a) 55
- b) 36
- c) 33
- d) 35
- e) 49

Answer & Solution: d

There are two alternating series of +2 and -2 pattern respectively.

33) 3 8 23 68 203 ?

- a) 607
- b) 608
- c) 604
- d) 606
- e) 610

Answer & Solution: b

The difference gets multiplied by 3 successively.

The series is

$$3 + 5 = 8,$$

$$8 + 15 = 23,$$

$$23 + 45 = 68,$$

$$68 + 135 = 203,$$

$$203 + 405 = 608$$

34) 12 6 6 9 18 ?

- a) 45
- b) 54
- c) 63
- d) 36
- e) 32

Answer & Solution: a

The series is

$$12 \times 0.5 = 6,$$

$$6 \times 1 = 6,$$

$$6 \times 1.5 = 9,$$

$$9 \times 2 = 18,$$

$$18 \times 2.5 = 45,$$

35) 9 15 27 45 69 99 ?

- a) 137
- b) 133
- c) 135
- d) 139
- e) 149

Answer & Solution: c

The series is

$$9 + (1 \times 6) = 15,$$

$$15 + (2 \times 6) = 15 + 12 = 27,$$

$$27 + (3 \times 6) = 27 + 18 = 45,$$

$$45 + (4 \times 6) = 45 + 24 = 69,$$

$$69 + (5 \times 6) = 69 + 30 = 99,$$

$$99 + (6 \times 6) = 99 + 36 = 135$$

36) 2 51 87 112 ? 137

- a) 148
- b) 121
- c) 128
- d) 118
- e) None of these

Answer & Solution: c

The series is

+72, +62, +52, +42, +32, +22

37) 2 3 8 27 ? 565 3396

- a) 34
- b) 108
- c) 110
- d) 112
- e) 120

Answer & Solution: d

The series is

$$2 \times 1 + 1 = 3,$$

$$3 \times 2 + 2 = 8,$$

$$8 \times 3 + 3 = 27,$$

$$27 \times 4 + 4 = 112,$$

$$112 \times 5 + 5 = 565,$$

$$565 \times 6 + 6 = 3396$$

38) 8 5 ? 26.75 97.625 444.3125

- a) 10.5
- b) 9.5
- c) 7.5
- d) 12.5
- e) 11.25

Answer & Solution: b

The series is

$$8 \times 0.5 + 1 = 5,$$

$$5 \times 1.5 + 2 = 9.5,$$

$$9.5 \times 2.5 + 3 = 26.75,$$

$$26.75 \times 3.5 + 4 = 97.625,$$

$$97.625 \times 4.5 + 5 = 444.3125$$

39) 27 125 ? 729 1331 2197

- a) 216
- b) 343
- c) 512
- d) 289
- e) 256

Answer & Solution: b

The series is

$$(3)^3, (5)^3, (7)^3, (9)^3, (11)^3, (13)^3$$

40) 4 10 30 102 ? 2110

- a) 610
- b) 420

c) 121

d) 120

e) 510

Answer & Solution: b

The series is

$$4 \times 1 + 1 \times 6 = 10$$

$$10 \times 2 + 2 \times 5 = 30$$

$$30 \times 3 + 3 \times 4 = 102$$

$$102 \times 4 + 4 \times 3 = 420$$

$$420 \times 5 + 5 \times 2 = 2110$$

$$610 \times 6 + 6 \times 1 = 3660 + 6 = 3666$$

41) 18 99 682 5443 ?

a) 48972

b) 48963

c) 48957

d) 48948

e) 48682

Answer & Solution: a

The series is:

$$18 \times 6 - 9 = 99$$

$$99 \times 7 - 11 = 682$$

$$682 \times 8 - 13 = 5443$$

$$5443 \times 9 - 15 = 48972$$

42) 1324 1721 2190 2737 3368 ?

- a) 3986
- b) 4089
- c) 4136
- d) 4290
- e) 4068

Answer & Solution: b

The series is:

$$(11)^3 - 7 = 1324$$

$$(12)^3 - 7 = 1721$$

$$(13)^3 - 7 = 2190$$

$$(14)^3 - 7 = 2737$$

$$(15)^3 - 7 = 3368$$

$$(16)^3 - 7 = 4089$$

43) 363 234 141 78 39 18 ?

- a) 12
- b) 11
- c) 10
- d) 9
- e) 8

Answer & Solution: d

The series is:

$$13 + 7 + 7^3 = 363$$

$$12 + 6 + 6^3 = 234$$

$$11 + 5 + 5^3 = 141$$

$$10 + 4 + 4^3 = 78$$

$$9 + 3 + 3^3 = 39$$

$$8 + 2 + 2^3 = 18$$

$$7 + 1 + 1^3 = 9$$

44) 665 463 307 191 109 ?

- a) 79
- b) 69
- c) 55
- d) 51
- e) 47

Answer & Solution: c

The series is:

$$9^3 - 8^2 = 665$$

$$8^3 - 7^2 = 463$$

$$7^3 - 6^2 = 307$$

$$6^3 - 5^2 = 191$$

$$5^3 - 4^2 = 109$$

$$4^3 - 3^2 = 55$$

45) 210 336 504 720 990 1320 ?

- a) 1651
- b) 1688
- c) 1716
- d) 1794
- e) 1720

Answer & Solution: c

The series is:

$$5 \times 6 \times 7 = 210$$

$$6 \times 7 \times 8 = 336$$

$$7 \times 8 \times 9 = 504$$

$$8 \times 9 \times 10 = 720$$

$$9 \times 10 \times 11 = 990$$

$$10 \times 11 \times 12 = 1320$$

$$11 \times 12 \times 13 = 1716$$

46) 3 81 ? 1029 2187 3993

a) 375

b) 648

c) 192

d) 575

e) 243

Answer & Solution: a

The series is $1^3 \times 3, 3^3 \times 3, 5^3 \times 3, 7^3 \times 3, \dots$

47) 30 45 75 105 165 ?

a) 185

b) 205

c) 215

d) 195

e) 230

Answer & Solution: d

Each number is a prime number multiplied by 15.

The series is

$15 \times 2, 15 \times 3, 15 \times 5, 15 \times 7, 15 \times 11, \dots$

48) 8 24 12 36 18 54 ?

- a) 64
- b) 79
- c) 34
- d) 37
- e) 27

Answer & Solution: e

The series is $\times 3, \div 2$ (Repeated)

49) 4320 720 144 ? 12 6 6

- a) 56
- b) 60
- c) 26
- d) 36
- e) 16

Answer & Solution: d

The series is

$\div 6, \div 5, \div 4, \div 3, \div 2, \div 1$

50) 26 63 124 215 342 ?

- a) 511
- b) 509
- c) 504
- d) 515
- e) 525

Answer & Solution: a

The series is $(3^3 - 1), (4^3 - 1), (5^3 - 1), (6^3 - 1), (7^3 - 1)$

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