BOOST UP PDFS | Quantitative Aptitude | Number Series (Hard Level Part-1)

Recommend for SBI PO, SBI Clerk, IBPS RRB/PO/Clerk Exams

We Exam Pundit Team, has made this "BOOST UP PDFS" Series to provide The Best Free PDF Study Materials on All Topics of Reasoning, Quantitative Aptitude & English Section. This Boost Up PDFs brings you questions in different level, Easy, Moderate & Hard, and also in New Pattern Questions. Each PDFs contains 50 Questions along with Explanation. For More PDF Visit: pdf.exampundit.in

Directions (1-10): Find the wrong term which does not follow the pattern that other numbers follow in the following number series:

1. 439 778 1456 2812 5624

a. 439
b. 778
c. 1456
d. 2812
e. 5624

2.729 1331 2497 3375 4913

a. 729
b. 1331
c. 3375
d. 2497
e. 4913

3. 1 3 10 36 152 760 4632

a. 3
b. 36
c. 4632
d. 760
e. None of these

4. 4 5 9 29 111 556 3335

a. 5
b. 9
c. 29
d. 111
e. 556

5. 9 21 45 101 211 433 879

a. 21
b. 45
c. 211
d. 433
e. 101

6. 1 1 2 6 24 96 720

a. 720
b. 96
c. 24
d. 6
e. 2

7. 20480 5120 1280 320 100 20 5

a. 5120
b. 320
c. 1280
d. 100
e. 5

8. 50, 51, 47, 56, 45, 65, 29

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a. 45
b. 50
c. 29
d. 65
e. None of these

9. 9,12, 30, 99, 408, 2050, 12348

a. 12
b. 30
c. 2050
d. 408
e. None of these

10. 11, 12, 26, 81, 320, 1645

a. 11
b. 12
c. 81
d. 320
e. None of these

Directions (11-20): Find the wrong term which does not follow the pattern that other numbers follow in the following number series:

11. 12, 6.8, 7.5, 12.75, 27.5 , 71.25

a. 12
b. 27.5
c. 7.5
d.1 2.75
e. 6.8

12. 84, 138, 192, 270, 348, 434

a. 192
b. 138
c. 84
d. 348
e. 434

13. 1527, 1185, 985, 865, 823, 817

a. 985
b. 865
c. 823
d. 817
e. 1185

14. 71, 90, 128, 185, 261, 365

a. 365
b. 128
c. 185
d. 90
e. 261

15.4, 12, 42, 196, 1005, 6066, 42511

a. 12
b. 42
c. 196
d. 1005
e. 6066

16. 0, 1, 9, 36, 99, 225, 441

a. 9
b. 36
c. 99
d. 225
e. 441

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17. 45, 131, 228, 338, 466, 619, 800

a. 131

b. 466

c. 619

d. 45

e. 800

18. 33, 38, 45, 54, 65, 80

a. 45

b. 80

c. 65

d. 54

e. 38

19. 5, 55, 495, 3465, 17455, 51975

a. 495

b. 17455

c. 3465

d. 55

e. 51975

20. 25, 128, 518, 1553, 3112, 3119

a. 518

b. 1553

c. 128

d. 3119

e. 3112

Directions (21-30): Find the wrong term which does not follow the pattern that other numbers follow in the following number series:

21. 26, 34, 61, 125, 254, 466

a. 61

b. 254

c. 34

d. 466

e. 26

22. 13, 15, 18, 27, 43, 75, 139

a. 15

b. 18

c. 27

d. 43

e. 75

23. 34, 71, 97, 110, 124, 129, 131

a. 71

b. 97

c. 110

d. 124

e. 129

24.67, 90, 192, 417, 817, 1442

a. 417

b. 817

c. 90

d. 1442

e. 192

25. 11, 5, 4, 4.5, 7, 16, 42

a. 5

b. 4

c. 4.5

d. 7

e. 16

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26. 2, 2, 5, 9, 22, 60

a. 2

b. 9

c. 60

d. 5

e. 22

27. 7, 9, 16, 25, 41, 65, 107, 173

a. 16

b. 7

c. 9

d. 41

e. 65

28. 13860, 6930, 2312, 462, 66, 6

a. 66

b. 2312

c. 6

d. 6930

e. 13860

29. 32, 25.6 ,20.48, 16.384, 13.1072, 12.48576

a. 20.48

b. 16.384

c. 12.48576

d. 25.6

e. 32

30. 1, 3, 10, 36, 152, 760, 4632

a. 3

b. 36

c. 4632

d. 760

e. 152

Directions (31-40): Find the wrong term which does not follow the pattern that other numbers follow in the following number series:

31.5531 5506 5425 5304 5135 4910 4621

a. 5531

b. 5425

c. 4621

d. 5135

e. 5506

32. 2, 3, 10, 39, 172, 884, 5346

a. 884

b. 3

c. 172

d. 39

e. 5346

33. 157.5, 45, 15, 6, 3, 2, 1

a. 1

b. 2

c. 6

d. 157.5

e. 45

34. 4, 3, 9, 34, 96, 219, 435

a. 4

b. 9

c. 34

d. 435

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e. 219

35. 22 , 33, 66, 99, 121, 279, 594

a. 33

b. 121

c. 279

d.594

e. 66

36. 560 272 132 62 28 12

a. 272

b. 132

c. 62

d. 28

e. 12

37. 1 8 27 64 124 216 343

a. 8

b. 27

c. 64

d. 124

e. 216

38. 582 605 588 611 634 617 600

a. 634

b. 611

c. 605

d. 600

e. 582

39. 157.5, 45, 15, 6, 3, 2, 1

a. 1

b. 2

c. 6

d. 157.5

e. 45

40. 4.5, 3, 12, 25.5, 27, 40.5, 49.5, 48.5

a. 48.5

b. 12

c. 25.5

d. 27

e. 49.5

Directions (41-50): Find the wrong term which does not follow the pattern that other numbers follow in the following number series:

41. 80 119 166 221 223

a. 80

b. 119

c. 166

d. 192

e. 223

42. 90, 135, 286, 750, 2160, 6405, 19155

a. 90

b. 750

c. 6405

d. 286

e. 2160

43. 1, 8, 66, 460, 2758, 13785, 55146

a. 460

b. 2758

c. 66

d. 8

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e. 55146

44. 8 8.5 11.5 14 17

a. 8

b. 5

c. 5

d. 14

e. 17

45. 22, 37, 52, 67, 84, 97

a. 52

b. 84

c. 97

d. 67

e. None of these

46. 3 9 23 99 479 2881 20159

a. 9

b. 23

c. 99

d. 479

e. 2881

47. 16 19 21 30 46 71 107

a. 19

b. 21

c. 30

d. 46

e. 71

48.7, 8, 18, 57, 228, 1165, 6996

a. 228

b. 57

c. 1165

d. 8

e. 18

49. 190 166 145 128 112 100 91

a. 100

b. 91

c. 128

d. 112

e. 145

50. 5 33 225 1345 6724 26881

a. 225

b. 6724

c. 26881

d. 33

e. 225

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Answer Key with Solution

Solution (1-10)

1. E

The series is +339, +678, +1356, +2712, …

Hence, there should be 5524 in place of 5624.

2. D

The series is 93, 113, 133, 153, 173, …

Hence, there should be 2197 in place of 2497.

3. D



From above, we can say that 760 is wrong in the givenseries. 770 should come in place of 760.

4. C

×1+1, ×2-1, ×3+1, ×4-1….28 should be there instead of 29

5. B

The series is x2+3, x2+5, x2+7, x2+9, x2+11…

Hence, 45 should be replaced by 47.

6. B

1 × 1 = 1

1 × 2 = 2

2 × 3 = 6

6 × 4 = 24

24 × 5 = 120 not 96

120 × 6= 720

96 is wrong

7. D

Dividing previous number by 4

8. A

50 + 12 (1) = 51

51 – 22 (4) = 47

47 + 32 (9) = 56

56 – 42 (16) = 40

40 + 52 (25) = 65

65 – 62 (36) = 29

9. C

(9×1) + 3 = 12

(12×2) + 6 = 30

(30×3) + 9 = 99

(99×4) + 12 = 408

(408×5) + 15 = 2055

(2055×6) + 18 = 12348

10. D

The series is

11*1 + 1 = 12

12*2 + 2 = 26

26*3 + 3 = 81

81*4 + 4 = 328

328*5 + 5 = 1645

so 320 is wrong

Solution (11-20)

11. E

The series is

12 x 0.5 + 0.5 = 6.5,

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6.5 x 1 + 1= 7.5,

7.5 x 1.5 + 1.5 = 12.75,

12.75 x 2 + 2 = 27.5,

27.5 x 2.5 + 2.5 = 71.25

12. A

The series is

21 x 4 = 84,

23 x 6 = 138,

25 x 8= 200,

27 x 10 = 270,

29 x 12 = 348,

31 x 14 = 434, …

Hence there should be 200 in place, of 192.

Therefore the wrong number is 192.

13. A

The series is

1527 — (192 -19) = 1185,

1185 — (152 — 15) =975,

975— (112— 11) = 865,

865 — (72— 7) = 823,

823 — (32 — 3) = 817

There should be 975 in place of 985.

14. A

The series is

71 + 19 = 90, 90 + 38 = .128, 128 + 57 = 185, 185 + 76 = 261, 261 + 95 = 356 Hence there should be 356 in place of 365.

15. B

4, 12, 42, 196, 1005, 6066, 42511

$4 \times 2+(2)^2 = 12$

$12\times 3+(3)^2 = 45$

$45\times 4+(4)^2 = 196$

$196\times 5+(5)^2 = 1005$

$1005\times 6+(6)^2 = 6066$

$6066\times 7+(7)^2 = 42511$

Hence, 42 is the wrong number

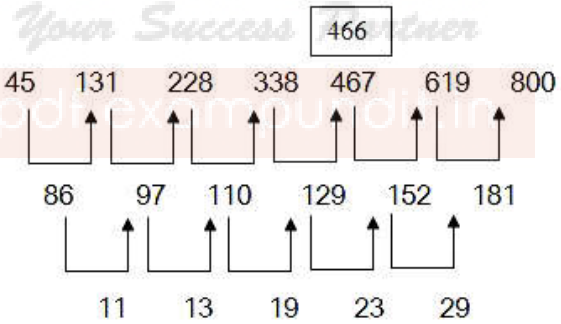
16. C

The difference are

0 1 9 36 99 225 441

0^2, 1^2 ,3^2, 6^2 ,10^2 ,15^2, 21^2

17. B



11, 13, 19, 23 and 29 are the prime numbers. Hence, 466 is the wrong number.

18. B

33+5=38

38+7=45

45+9=54

54+11=65

65+13=80(78).

19. B

5*11=55

55*9=495

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495*7=3465

3465*5=17455(17325)

17325*3=51975.

20. A

25*5+3=128

128*4+4=518(516)

516*3+5=1553

1553*2+6=3112

3112*1+7=3119.

Solution (21-30)

21. B

26+2^3=34

34+3^3=61

61+4^3=125

125+5^3=254(250)

250+6^3=466.

22. B

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

23. C

$+ (6^2+1), + (5^2+1), + (4^2+1), + (3^2+1), +(2^2+1), + (1^2+1)$

24. C

wrong =90

67 + (25*1) = 92

92 + (25*4)=192

192+(25*9)=417

417+(25*16)=817

817+(25*25)=1442

25. E

*0.5 – 0.5, * 1 – 1, *1.5 – 1.5, *2 – 2, *2.5 – 2.5, *3 – 3

26. D

wrong= 5

2*0.5+1=2

2*1+2=4

4*1.5+3=9

9*2+4=22

22*2.5+5=60

27. E

Wrong = 65

7+9=16

9+16=25

16+25=41

25+41=66

41+66=107

107+66=173

28. B

wrong =2320

13860/2=6930

6930/3=2310

2310/5=462

462/7=66

66/11=6

29. C

wrong= 12.48576

32*0.8=25.6

25.6*0.8=20.48

20.48*0.8=16.384

16.384*0.8=13.1072

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13.1072*0.8=10.48576

30. D

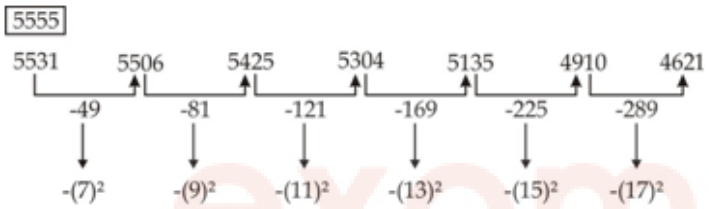
The number should be 770 In place of 760.

×1 +2, ×2 +4, ×3 +6, ×4 + 8, ×5 +10, ×6 + 12, …

Solution (31-40)

31. A

Solution: The number should be 5555 in place of 5531.



32. A

wrong=884

2*1+1=3

3*2+4=10

10*3+9=39

39*4+16=172

172*5+25=885

885*6+36=5346

33. A

Solution: The number should be 2 in place of 1.

Divided by 3.5, 3, 2.5, 2, 1.5, 1, .

34. D

The series is 0^2+ 4, 1^2+2, 3^2+0, 6^2-2, 10^2-4, 15^2- 6,21^2 – 8…

Hence, 435 should be replaced with 433

35. C

279 is not a multiple of 11.

36. A

The series is ÷2 – 6; ÷2 – 5; ÷2 – 4 ..and so on.

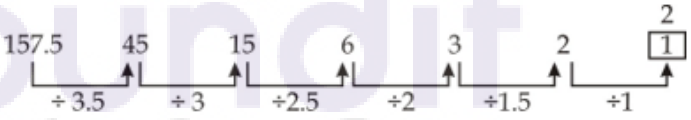
37. D

The numbers are 1^3, 2^3, 3^3, 4^3 etc. So, 124 is wrong; it must have been 5^3 i.e., 125.

38. D

Alternatively 23 is added and 17 is subtracted

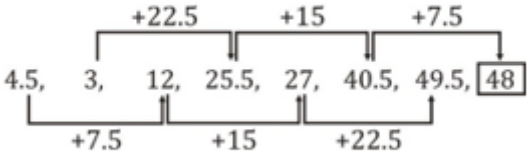
39. A



∴ 1 is wrong term

40. A

Series is



∴ Wrong term = 48.5

Solution (41-50)

41. E

The series is 9^2 – 1, 11^2 – 2, 13^2 – 3, 15^2 – 4, 17^2 – 5,

Hence, there should be 284 in place of 223.

42. D

The number series should be 285 in the place of 286.

The series is (90-45) × 3, (135-40) × 3, (285-35) × 3, (750-30) × 3, (2160-25) × 3,…

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43. A

1 8 66 460 2758 13785 55146

Here $1 \times 9 - 1 = 8$; $8 \times 8 + 2 = 66$; $66 \times 7 - 3 = 459$;

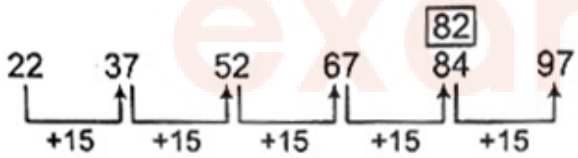
$459 \times 6 + 4 = 2758$; $2758 \times 5 - 5 = 13785$; $13785 \times 4 + 6 = 55146$

44. B

The series is $8 + 1.5 = 9.5$, $9.5 + 2 = 11.5$, $11.5 + 2.5 = 14$, $14 + 3 = 17$

Hence, there should be 9.5 in place of 8.5.

45. B



So, 84 is the incorrect term, it should be 82.

46. C

$3 \times 2 + 3 = 9$; $9 \times 3 - 4 = 23$; $23 \times 4 + 5 = 97$; $97 \times 5 - 6 = 479$…

47. A

The series is based on the following pattern:

$107 - 71 = 36 = 6^2$

$71 - 46 = 25 = 5^2$

$46 - 30 = 16 = 4^2$

$30 - 21 = 9 = 3^2$

$21 - 19 = 2 \neq 2^2$

19 I should be replaced by 17 for which $21 - 17 = 22$

48. A

$7 \times 1 + 1 = 8$

$8 \times 2 + 2 = 18$

$18 \times 3 + 3 = 57$

$57 \times 4 + 4 = 232$ not 228

$232 \times 5 + 5 = 1165$

$1165 \times 6 + 6 = 6996$

228 is wrong.

49. C

Subtracting 24, 21, 18, 15, 12.

50. B

The series is

$5 \times 8 - 7 = 33$,

$33 \times 7 - 6 = 225$,

$225 \times 6 - 5 = 1345$,

$1345 \times 5 - 4 = 6721$,

$6721 \times 4 - 3 = 26881$,

Therefore, there should be 6721 in place of 6724.

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