1) 7, 10, 16, 28, ?, 100

$28 + 24 = 52$ Ans
$52 + 48 = 100$

Ans. 52

2) 9, 11, 16, 26, ?, 69

3) 3 , 4, 10, 33, 136, ?

3   4   10   33   136   685
3 x 1 + 1 = 4
4 x 2 + 2 = 10
10 x 3 + 3 = 33
136 x 5 + 5   685

4) 21, 24, 32, 45, 63, ?

5) 6, 3, 3, 6, 24, ?

6 ✕ 0.5 = 3
3 ✕ 1 = 3
3 ✕ 2 = 6
6 ✕ 4 = 24
24 ✕ 8 = 112
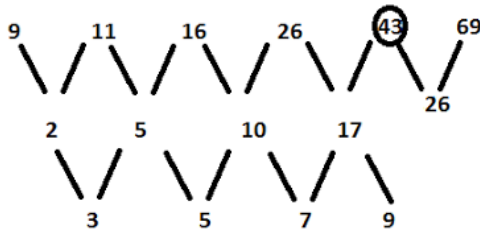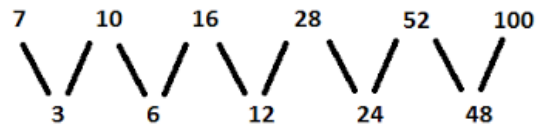
6) 7, 10, 16, 28, 52, 100

7) 9, 9, 12, 20, 35, ?
Ans. 59

8) 4, 13, 23, 35, 50, ?
Ans. 69
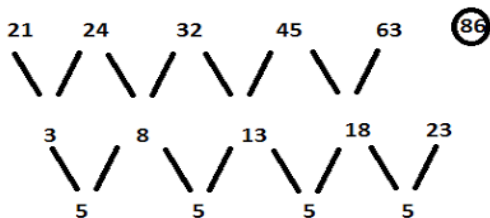
9) 9, 17, 81, 297, ?, 1809
Ans. 809

10) 7, 20, 13, 26, 19, ?
Ans. 32

11) 7, 20, 46, 85, ? , 202
Ans : 137

7 20 46 85 ? 202
13 26 39 52 65

6 10 19 32 48
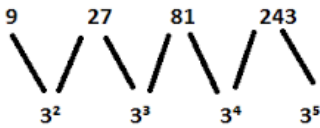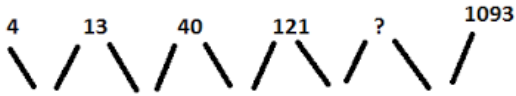4 9 13 16 18

5 4 3 2
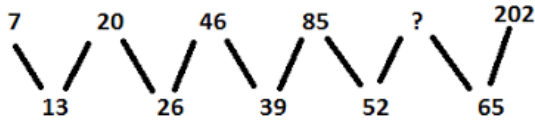
12) 4, 13, 40, 121, ? , 1093

Ans: 364

4 13 40 121 ? 1093

9 27 81 243

3^2 3^3 3^4 3^5

Directions (16-20): What should come in place of the question mark (?) in the following number series?

16) 14, 25, 47, 91, ?, 355

a) 100

b) 197

c) 179

d) 335

e) 155

13) 17, 18, 14, 23, 7, ?

Ans: 32

17 18 14 23 7 ?

1 -4 9 -16 25

Ans. c) 179

14, 25, 47, 91, ?, 355

14 * 2 - 3 = 25

25 * 2 - 3 = 47

47 * 2 - 3 = 91

91 * 2 - 3 = 179

14) 2180 , 2179, 2152, 2027, ?

Ans: 1684

2180 2179 2152 2027

-1 -27 -125 -343

$(1)^3$ $(3)^3$ $(5)^3$ $(7)^3$

17) 11, 24, 44, 70, 101, ?

a) 136

b) 102

c) 80

d) 102

e) 163

Ans. a) 136

11, 24, 44, 70, 101, ?

15) 6, 10, 19, 32, 48, ?

Ans : 66
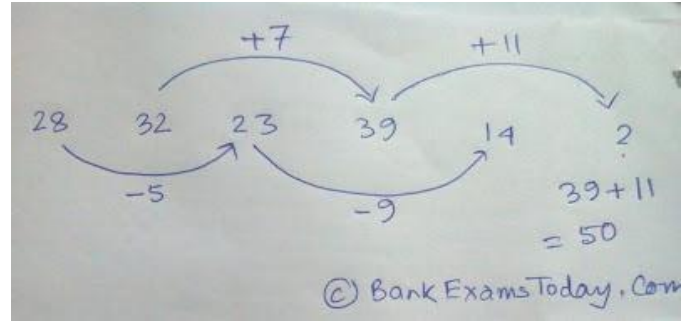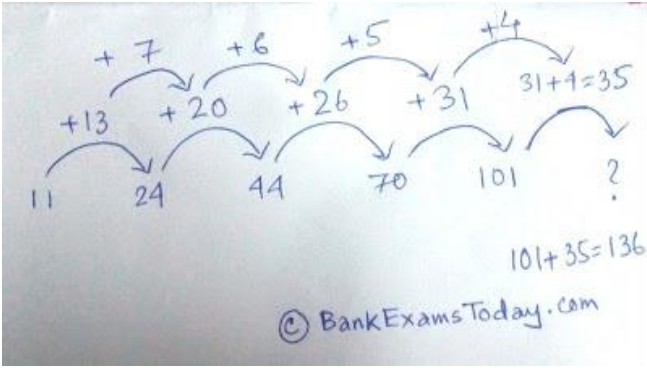
18) 18, 8, 6, 8, 24, ?
a) 6
b) 48
c) 24
d) 176
e) 167

Ans. d) 176
18, 8, 6, 8, 24,?
18 * 0.5- 1 = 8
8 * 1- 2 = 6
6* 2 - 4 = 8
8 * 4 - 8 = 24
24*8 - 16 = 176

19) 28, 32, 23, 39, 14, ?
a) 30
b) 50
c) 55
d) 6
e) 14

Ans. b) 50
28, 32, 23, 39, 14, ?

20) 5, 12, 33, 136, 675, ?
a) 5569
b) 4426
c) 5046
d) 4065
e) 4056

Ans. e) 4056
5, 12, 33, 136, 675, ?
5 * 2 + 2 = 12
12 * 3 - 3 = 33
33 * 4 + 4 = 136
136 * 5 - 5 = 675
675 * 6 + 6 = 4056

Ques 21) 5, 4, 7, 20, 79,?

Ans.
$\Rightarrow$ 5 × 1-1=4
4 × 2-1=7
7 × 3-1=20
20 × 4-1=79
79 × 5-1=394
Ans 394

Ques 22) 18, 9, 9, 13.5, 27,?

Ans.

⇒ 18 ✕ 0.5 = 9
⇒ 9 ✕ 1 = 9
⇒ 9 ✕ 1.5 = 13.5
⇒ 15.5 ✕ 2= 27
⇒ 27 ✕ 2.5 = 67.5 answers

Ques 23) 3, 83, 152, 209, 253,?

Ans.
There is pattern between the differences of the numbers given in the series.
83 - 3 = 80
152 - 83 = 69
209 - 152 = 57
253 -209 = 44

Now
⇒ 80 - 69 = -11
⇒ 69 - 57 = -12
⇒ 57 - 44 = -13
⇒ 44 - 30 = -14
30 is the answer.

Ques 24) 318, 160, 82, 44,?

Ans.
This questions was very easy, there was a clear pattern in series, no need to find the differences.
⇒ x0.5+1
⇒ x0.5+2
⇒ x0.5+3
⇒ x0.5+4

Ques 25) 500, 500, 493, 467, 404,?

Ans.

Again we need to find the differences between the numbers and then there was a pattern in the differences.
⇒ 0....-7....-26....-63....-124
⇒ 7....19....37....61
⇒12....18....24

Ques 26) 22, 11, 11, 16.5, 33,?

Ans.
⇒ x0.5....x1....x1.5....x2....x2.5
⇒ 33 ✕ 2.5 = 82.5

Ques 27) 6, 5, 9, 26, 103,?

Ans.
⇒ x1-1....x2-1...x3-1....x4-1

Ques 28) 401, 401, 394, 368, 305, ?

Ans.
There is pattern between the differences of the numbers given in the series.
⇒ 0....-7....-26....-63....-124
⇒ 7....19....37....61
⇒ 12....18....24

Ques 29) 4, 75, 136, 186, 224,?

Ans.
+71....+61....+50....+38....+25
-10....-11....-12....-13

Ques 30)158, 80, 42, 24,?

Ans.

x0.5+1....x0.5+2....x0.5+3....x0.5+4

24 ✕ 1/2 + 3= 15 Answer

Directions (31-35): What should come in place of the question mark (?) in the following number series?

31) 6, 4, 5, 11, 39, ?
a) 188
b) 198
c) 189
d) 199
e) 200

Ans. c) 189

6 x 1 – 2 = 4

4 x 2 – 3 = 5

5 x 3 – 4 = 11

11 x 4 – 5 = 39

39 x 5 – 6 = 189

32) 14, 7, 7, 14, 56, ?
a) 158
b) 184
c) 484
d) 884
e) 448

Ans. e) 448

14 x 0.5 = 7

7 x 1 = 7

7 x 2 = 14

14 x 4 = 56

56 x 8 = 448

33) 2, 3, 7, 16, 32, ?

a) 57
b) 59
c) 56
d) 60
e) 75

Ans. a) 57

$2 + 1^2 = 3$

$3 + 2^2 = 7$

$7 + 3^2 = 16$

$16 + 4^2 = 32$

$32 + 5^2 = 57$

34) 8, 14, 24, 38, 56, ?
a) 55
b) 65
c) 96
d) 78
e) 87

Ans. (d) 78

8..........14........24..........38........56

.....+6......+10.......+14.........+18

.......+4.........+4............+4.......+4

Answer: 56 + 18 + 4 = 78

35) 5, 7, 13, 25, 45, ?
a) 57
b) 75
c) 55
d) 77
e) 54

Ans. b) 75

5...........7.........13.........25..........45

.......+2........+6.........+12......+20

............+4.........+6..........+8......+10

Answer: 45 + 20 + 10 = 75

Directions (36-40): What should come in place of the question mark (?) in the following number series?

36) 4, 16, 26, 34, 40, ?
a) 45
b) 46
c) 43
d) 55
e) 44

Ans. e) 44
4.........16..........26...........34...........40.........
.......+12.....+10..........+8...........+6..........+4
Answer: 40 + 4 = 44

37) 825, 582, 501, 474, 465,?
a) 484
b) 642
c) 246
d) 462
e) 532

Ans. d) 462
825............582.........501.........474........465.........
........-243.........-81.........-27..........-9..........-3...
Answer: 465 – 3 = 462

38) 8, 12, 24, 60, 180, ?
a) 360
b) 300
c) 630
d) 600
e) 720

Ans. c) 630
8 x 1.5 = 12
12 x 2 = 24
24 x 2.5 = 60
60 x 3 = 180
180 x 3.5 = 630

39) 3, 4, 10, 33, 136, ?
a) 586
b) 685
c) 569
d) 690
e) 265

Ans. b) 685
3 x 1 + 1 = 4
4 x 2 + 2 = 10
10 x 3 + 3 = 33
33 x 4 + 4 = 136
136 x 5 + 5 = 685

40) 16, 17, 13, 22, 6, ?
a) 31
b) 2
c) 1
d) 12
e) 13

Ans. a) 31
16...........17........13..........22........6......
......+1...........-4..........+9........-16......(+25)
....(1 x 1)....(2 x 2)....(3x 3)....(4x4)....(5 x 5)
Answer: 6+25= 31

41) 1, 4, 18, 44, 83......?
Ans. 136

42) 12, 13, 17, 26, 42.....?
Ans. 67

43) 7, 14, 21, 28......?
Ans. 35

44) 157, 150, 136, 115, ...?
Ans. 87

45) 8, 4, 4, 6, 12, ...?
Ans. 30

46) 1, 2, 8, 48, 384, ...?
Ans. 3840 (Numbers are multiplied by 2,4,6,8,10)

Directions (47-51): What should come in place of the question mark (?) in the following number series?

47) 7, 6, 8, 15, 44, ?
a) 88
b) 120
c) 159
d) 150
e) 195

Ans. e) 195
$7 \times 1 - 1^2 = 6$
$6 \times 2 - 2^2 = 8$
$8 \times 3 - 3^2 = 15$
$15 \times 4 - 4^2 = 44$
$44 \times 5 - 5^2 = 195$

48) 16, 25, 42, 66, 96, ?
a) 120
b) 160
c) 118
d) 131

e) 130

Ans. d) 131
+9.........+17........+24.........+30.........+35
+8..........+7..........+6............+5
96 + 35 = 131

49) 4, 6, 9, 34, 68, ?
a) 56
b) 64
c) 161
d) 68
e) 116

Ans. c) 161
$4 \times 2 - 2 = 6$
$6 \times 3 - 9 = 9$
$9 \times 4 - 2 = 34$
$34 \times 5 - 9 = 161$

50) 7.6, 9.9, 14.5, 23.7, ?
a) 42.2
b) 42.1
c) 42.3
d) 42.4
e) 42.5

Ans. 42.1
+2.3 ..... +4.6 ..... +9.2 ..... +18.4
7.6 + 2.3 = 9.9
9.9 + 4.6 = 14.5
14.5 + 9.2 = 23.7
23.7 + 18.4 = 42.1

51) 9, 5, 4, 7.5, 13, ?
a) 35
b) 26

c) 34

d) 48

e) 62

Ans. a) 35

$9 \times 0.5 + 0.5 = 5$

$5 \times 1 - 1 = 4$

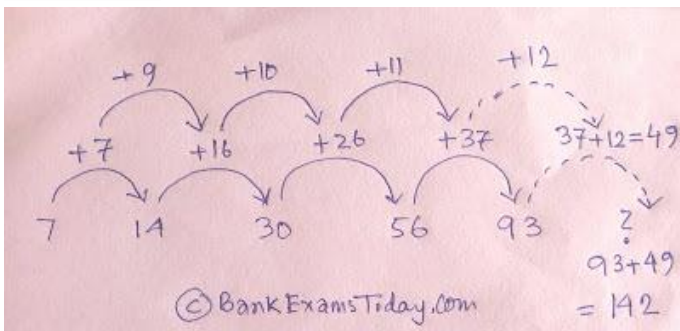$4 \times 1.5 + 1.5 = 7.5$

$7.5 \times 2 - 2 = 13$

$13 \times 2.5 + 2.5 = 35$

Directions (52-56): What should come in place of the question mark (?) in the following number series?

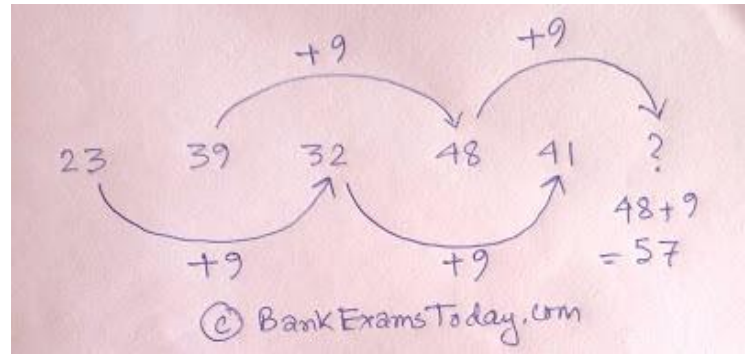**52) 7, 14, 30, 56, 93, ?**

a) 142

b) 403

c) 124

d) 96

e) 124

Ans. a) 142

53) 23, 39, 32, 48, 41, ?

a) 58

b) 57

c) 59

d) 48

e) 84

Ans. b) 57

54) 11, 13, 20, 48, 111, ?

a) 237

b) 125

c) 273

d) 255

e) 555

Ans. a) 237

$11 + (1^3 + 1) = 11 + 3 = 13$

$13 + (2^3 - 1) = 13 + 7 = 20$

$20 + (3^3 + 1) = 20 + 28 = 48$

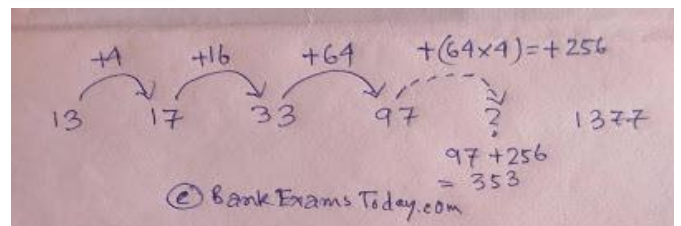$48 + (4^3 - 1) = 48 + 63 = 111$

$111 + (5^3 + 1) = 111 + 126 = 237$

55) 13, 17, 33, 97, ?, 1377.

a) 259

b) 563

c) 535

d) 455

e) 353

Ans. e) 353

56) 6, 3.5, 4.5, 11, 48, ?

a) 96

b) 56

c) 392

d) 192

e) 292

Ans. c) 392

6 x 0.5 + 0.5 = 3.5

3.5 x 1 + 1 = 4.5

4.5 x 2 + 2 = 11

11 x 4 + 4 = 48

48 x 8 + 8 = 392

Directions (57-61) : What should come in place of the question mark (?) in the following number series?

57) 8, 4.5, 5.5, 13, 56, ?

a) 566

b) 496

c) 596

d) 450

e) 456

Ans. e) 456

8 x 0.5 + 0.5 = 4.5

4.5 x 1 + 1 = 5.5

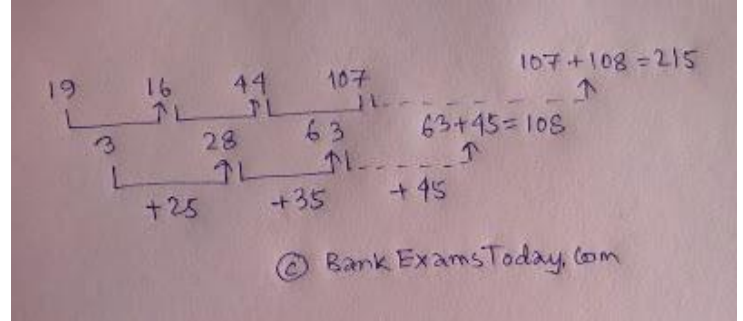5.5 x 2 + 2 = 13

13 x 4 + 4 = 56

56 x 8 + 8 = 456

58) 19, 16, 44, 107, ?

a) 108

b) 156

c) 215

d) 151

e) 251

Ans. c) 215

59) 11, 14, 23, 50, ?

a) 111

b) 121

c) 151

d) 131

e) 141

Ans. d) 131

$11 + 3^1 = 11 + 3 = 14$
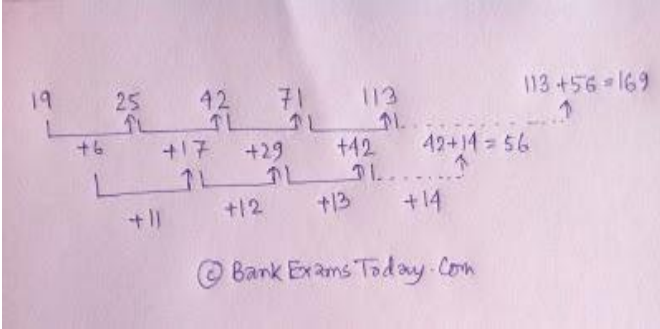
$14 + 3^2 = 14 + 9 = 23$

$23 + 3^3 = 23 + 27 = 50$

$50 + 3^4 = 50 + 81 = 131$

60) 19, 25, 42, 71, 113, ?

a) 169

b) 153

c) 186

d) 196

e) 269

Ans. a) 169

61) 21, 35, 30, 44, 39, ?
a) 59
b) 53
c) 55
d) 45
e) 46

Ans. b) 53
21 + 14 = 35
35 – 5 = 30
30 + 14 = 44
44 – 5 = 39
39 + 14 = 53

Directions (62-66): What should come in place of the question mark (?) in the following number series?

62) 12, 6.5, 7.5, 17, 72, ?
a) 356
b) 82
c) 185
d) 292
e) 584

Ans. e) 584
12 x 0.5 + 0.5 = 6.5
6.5 x 1 + 1 = 7.5
7.5 x 2 + 2 = 17

17 x 4 + 4 = 72
72 x 8 + 8 = 584

63) 463, 220, 139, 112, ?, 100
a) 101
b) 100
c) 104
d) 103
e) 102

Ans. d) 103
463 – 220 = 243
220 – 139 = 81
139 – 112 = 27
112 – ? = 9
? – 100 = 3
So, ? = 112 – 9 = 103

64) 17, 30, 21, 34, 25, ?
a) 38
b) 30
c) 27
d) 36
e) 40

Ans. a) 38
17 +13 = 30
30 – 9 = 21
21 +13 = 34
34 – 9 = 25
25 + 13 = 38

65) 31, 33, 40, 68, 131, ?
a) 232
b) 257
c) 132

d) 250

e) 275

Ans. b) 257

$31 + (1^3 + 1) = 31 + 2 = 33$

$33 + (2^3 - 1) = 33 + 7 = 40$
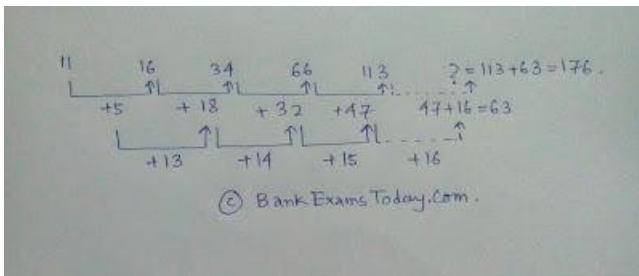
$40 + (3^3 + 1) = 40 + 28 = 68$

$68 + (4^3 - 1) = 68 + 63 = 131$

$131 + (5^3 + 1) = 131 + 126 = 257$

66) 11, 16, 34, 66, 113, ?
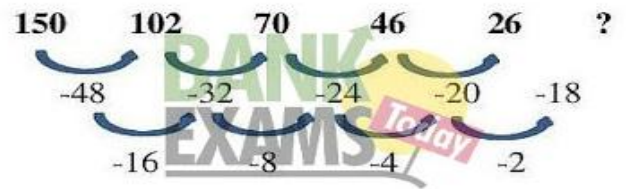
a) 130

b) 160

c) 176

d) 175

e) 177

Ans. c) 176

Directions (67-71): What should come in place of the question mark (?) in the following number series?

67) 150, 102, 70, 46, 26, ?

a) 16

b) 8

c) 10

d) 2

e) 4

Ans. b) 8

Then ? = 26-18 = 8

68) 10, 14, 28, 52, 134, ?

a) 302

b) 268

c) 300

d) 304

e) 208

Ans. d) 304

10*3 - 2= 28

14*4 - 4= 52

28*5 - 6= 134

52*6- 8= 304

69) 4500, 900, 90, 6, ?, 0.012.

a) 0.3

b) 3

c) 3.33

d) 0.33

e) 3.3

Ans. a) 0.3

4500/5 = 900

900/10 = 90

90/15 = 6

6/20 = 0.3

0.3/25 = 0.012

70) 24, 11, 10, 14, 27, ?

a) 66

b) 70.5
c) 68
d) 66.5
e) 68.5

Ans. d) 66.5
24*(1/2) – 1 = 11
11*(2/2) – 1 = 10
10*(3/2) – 1 = 14
14*(4/2) – 1 = 27
27*(5/2) – 1 = 66.5

71) 8, 7, 12, 33, 128, ?
a) 528
b) 365
c) 653
d) 825
e) 635

Ans. e) 635
8*1 – 1 = 7
7*2 – 2 = 12
12*3 – 3 = 33
33*4 – 4 = 128
128*5 – 5 = 635

Directions (72 -76): In the following number series only one number is wrong. Find out the wrong number.

72) 18.3, 20.6, 16, 22.9, 13.7, 2.2, 11.4
a) 25.2
b) 18.3
c) 13.7
d) 22.9
e) 20.6

Ans. a) 25.2
18.3 + 2.3 = 20.6
20.6 - 4.6 = 16
16 + 6.9 = 22.9
22.9 - 9.2 = 13.7
13.7 +11.5 = 25.2
25.2 - 13.8 = 11.4

73) 9, 5, 6, 10.5, 23, 61, 183
a) 183
b) 10.5
c) 61
d) 5
e) 9

Ans. c) 61
9*0.5 + 0.5 = 5
5*1 + 1 = 6
6*1.5 + 1.5 = 10.5
10.5*2 + 2 = 23
23*2.5 + 2.5 = 60
60*3 + 3 = 183

74) 188, 154, 140, 132, 128 , 126, 125
a) 125
b) 154
c) 132
d) 126
e) 188

Ans. e) 188
186 - 36 = 154
154 - 16 = 140
140 - 8 = 132
132 - 4 = 128
128 - 2 = 126
126 - 1 = 125

75) 2, 4, 11, 37, 151, 771, 4633

a) 11

b) 4633

c) 771

d) 151

e) 2

Ans. d) 151

2*1 + 2 = 4

4*2 + 3 = 11

11*3 + 4 = 37

37*4 + 5 = 153

153*5 + 6 = 771

771*6 + 7 = 4633

76) 391, 394, 399, 411, 431, 461, 503

a) 503

b) 394

c) 399

d) 431

e) 391

Ans. b) 394

391 + 2 = 393

393 + 6 = 399

399 + 12 = 441

441+ 20 = 431

431 + 30 = 461

461 +40 = 503

Directions (77-81): What should come in place of the question mark (?) in the following number series?

77) 14, 25, 47, 91, ?, 355

a) 100

b) 197

c) 179

d) 335

e) 155

Ans. c) 179

14, 25, 47, 91, ?, 355

14 * 2 - 3 = 25

25 * 2 - 3 = 47

47 * 2 - 3 = 91

91 * 2 - 3 = 179

78) 11, 24, 44, 70, 101, ?

a) 136

b) 102

c) 80

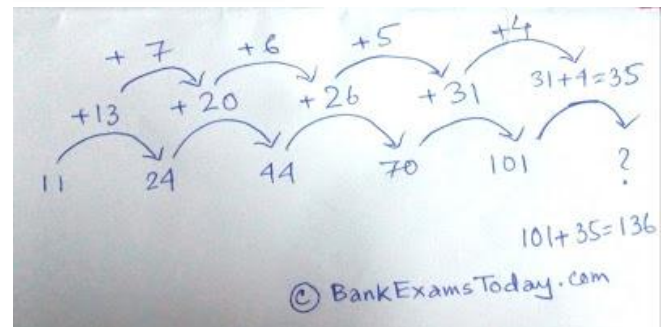d) 102

e) 163

Ans. a) 136

11, 24, 44, 70, 101, ?

79) 18, 8, 6, 8, 24, ?

a) 6

b) 48

c) 24

d) 176

e) 167

Ans. d) 176

18, 8, 6, 8, 24,?

18 * 0.5- 1 = 8

8 * 1- 2 = 6

6* 2 - 4 = 8

8 * 4 - 8 = 24

24*8 - 16 = 176

80) 28, 32, 23, 39, 14, ?
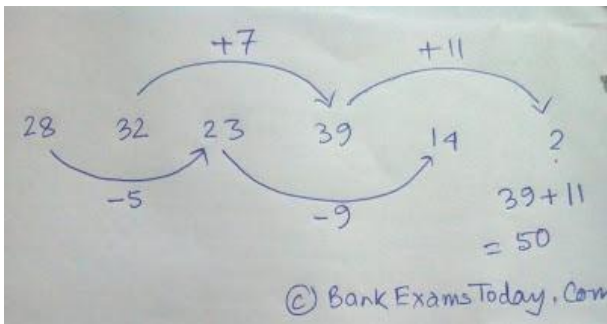
a) 30

b) 50

c) 55

d) 6

e) 14

Ans. b) 50

28, 32, 23, 39, 14, ?

81) 5, 12, 33, 136, 675, ?

a) 5569

b) 4426

c) 5046

d) 4065

e) 4056

Ans. e) 4056

5, 12, 33, 136, 675, ?

5 * 2 + 2 = 12

12 * 3 - 3 = 33

33 * 4 + 4 = 136

136 * 5 - 5 = 675

675 * 6 + 6 = 4056

Directions (82-86): What should come in place of the question mark (?) in the following number series?

82) 22, 10, 8, 12, 40, ?

a) 50

b) 48

c) 304

d) 636

e) 512

Ans. c) 304

22 x 0.5 – 1 = 10

10 x 1 (double of 0.5) – 2 (double of 1) = 8

8 x 2 – 4 = 12

12 x 4 – 8 = 40

40 x 8 – 16 = 304

83) 6, 14, 39, 160, 795, ?

a) 1005

b) 3776

c) 2569

d) 56

e) 4776

Ans. e) 4776

6 x 2 + 2 = 14

14 x 3 – 3 = 39

39 x 4 + 4 = 160

160 x 5 – 5 = 795

795 x 6 + 6 = 4776

84) 25, 29, 20, 36, 11, ?

a) 47

b) 37

c) 30

d) 74

e) 35

Ans. a) 47

$25 + 2^2 = 29$

$29 - 3^2 = 20$

$20 + 4^2 = 36$

$36 - 5^2 = 11$

$11 + 6^2 = 11 + 36 = 47$

$21 \times 2 - 5 = 37$

$37 \times 2 - 5 = 69$

$69 \times 2 - 5 = 133$

$133 \times 2 - 5 = 261$

$21 \times 2 - 5 = 37$

$37 \times 2 - 5 = 69$

$69 \times 2 - 5 = 133$

$133 \times 2 - 5 = 261$

85) 18, 23, 36, 56, 82, ?

a) 103

b) 113

c) 163

d) 96

e) 88

Ans. b) 113
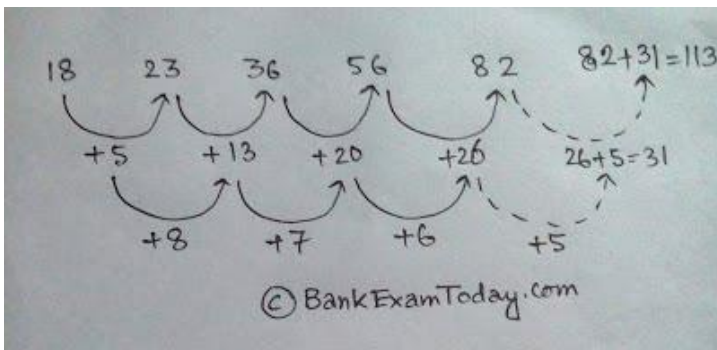
86) 13, 21, 37, 69, ? ,261

a)103

b) 86

c) 134

d) 133

e) 163

Ans. d) 133

$13 \times 2 - 5 = 21$