

Quiz Date: 24<sup>th</sup> August 2020

Directions (1-15): What should come in place of question mark (?) in following number series problems?

Q1. 6, 32, 152, 450, ?

- (a) 444
- (b) 448
- (c) 446
- (d) 440
- (e) 464

Q2. 25, 30, 66, 211.2, 887.04, ?

- (a) 1064.448
- (b) 1063
- (c) 1060.548
- (d) 1162.858
- (e) 4612.608

Q3. 132, 156, 182, 210, ?

- (a) 260
- (b) 240
- (c) 280
- (d) 300
- (e) 230

Q4. 227, 200, 173, 146, ?

- (a) 109
- (b) 119
- (c) 129
- (d) 128
- (e) 110

Q5. 19, 68, ?, 129, 145, 154

- (a) 100
- (b) 101
- (c) 210
- (d) 98
- (e) 104

Q6. 561, 642, 763, 932, 1157, ?

- (a) 1446
- (b) 1326
- (c) 1482
- (d) 1246
- (e) 1426

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Q7. 1524, 1443, 1394, ?, 1360, 1359

- (a) 1303
- (b) 1218
- (c) 1359
- (d) 1369
- (e) 1569

Q8. 8, 24, 49, 85, 134, ?

- (a) 189
- (b) 176
- (c) 198
- (d) 201
- (e) 321

Q9. 3, 10, 15, 26, 35, ?

- (a) 63
- (b) 50
- (c) 60
- (d) 54
- (e) 80

Q10. 1543, 1440, 1337, ?, 1131

- (a) 1233
- (b) 1234
- (c) 1235
- (d) 1238
- (e) 1433

Q11. 1, 5, 29, 209, ?, 20789

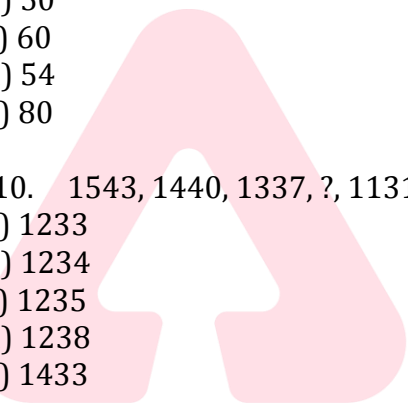
- (a) 2223
- (b) 1889
- (c) 1771
- (d) 1828
- (e) 2148

Q12. 71, 88, 113, 150, 203, ?

- (a) 412
- (b) 328
- (c) 276
- (d) 282
- (e) 316

Q13. 359, 437, 523, 615, 711, ?

- (a) 809
- (b) 812



- (c) 936  
 (d) 984  
 (e) 778

Q14. 3, 5, 17, 97, 769, ?

- (a) 9217  
 (b) 4609  
 (c) 6145  
 (d) 7681  
 (e) 7679

Q15. 15.5, 29, 56, 96.5, 150.5, ?

- (a) 238  
 (b) 252  
 (c) 312  
 (d) 328  
 (e) 218

### Solutions

S1. Ans.(c)

Sol.

Pattern is

$$6 \times 7 - 10 = 32$$

$$32 \times 5 - 8 = 152$$

$$152 \times 3 - 6 = 450$$

$$450 \times 1 - 4 = 446$$

$$? = 450 \times 1 - 4 = 446$$

S2. Ans.(e)

Sol.

Pattern is  $\times 1.2, \times 2.2, \times 3.2, \dots$

$$? = 887.04 \times 5.2 = 4612.608$$

S3. Ans.(b)

Sol.

Pattern is  $(11^2 + 11), (12)^2 + 12, (13)^2 + 13, \dots$

$$\text{So, } ? = 15^2 + 15 = 240$$

S4. Ans.(b)

Sol.

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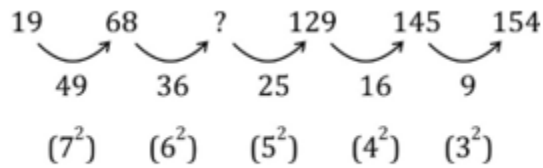
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Pattern is  $-27, -27, -27, \dots$

$\therefore ? = 146 - 27 = 119$

S5. Ans.(e)

Sol.



$\therefore ? = 68 + 36 = 104$

S6. Ans.(a)

Sol.

$+9^2, +11^2, +13^2, +15^2, \dots$

S7. Ans.(d)

Sol.

$-9^2, -7^2, -5^2, \dots$

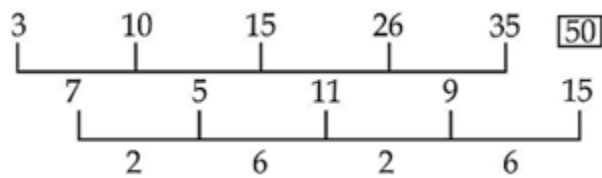
S8. Ans.(c)

Sol.

$+4^2, +5^2, +6^2, +7^2, \dots$

S9. Ans.(b)

Sol.



S10. Ans.(b)

Sol.

$-103, -103, -103, \dots$

S11. Ans.(b)

Sol.



The pattern is

$$1 \times 3 + 2 = 5$$

$$5 \times 5 + 4 = 29$$

$$29 \times 7 + 6 = 209$$

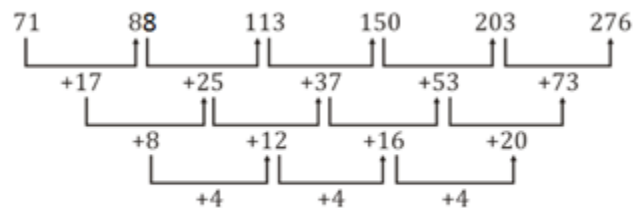
$$209 \times 9 + 8 = \boxed{1889}$$

$$1889 \times 11 + 10 = 20789$$

S12. Ans.(c)

Sol.

Series is

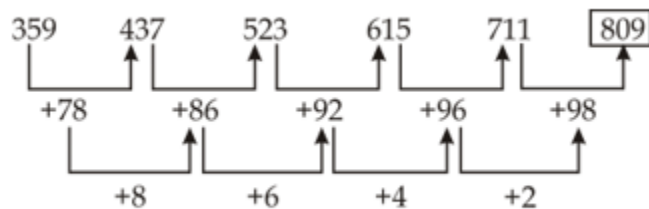


$$? = 276$$

S13. Ans.(a)

Sol.

Series is



$$? = 809$$

S14. Ans.(d)

Sol.

Pattern is

$$3 \times 2 - 1 = 6 - 1 = 5$$

$$5 \times 4 - 3 = 20 - 3 = 17$$

$$17 \times 6 - 5 = 102 - 5 = 97$$

$$97 \times 8 - 7 = 776 - 7 = 769$$

$$769 \times 10 - 9 = 7690 - 9 = \boxed{7681}$$

S15. Ans.(e)

Sol.

Series is

$$15.5 + 1 \times 13.5 = 15.5 + 13.5 = 29$$

$$29 + 2 \times 13.5 = 29 + 27 = 56$$

$$56 + 3 \times 13.5 = 56 + 40.5 = 96.5$$

$$96.5 + 4 \times 13.5 = 96.5 + 54 = 150.5$$

$$150.5 + 5 \times 13.5 = 15.5 + 67.5 = \boxed{218}$$

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