Quiz Date: 23rd September 2020

Directions (1-5): What should come in place of the question mark (?) in the following series?

Q1. 12, ? , 168, 504, 1260, 2520
(a) 96
(b) 59
(c) 61
(d) 48
(e) None of these

Q2. 15, 21, 32, 48, 69, ?
(a) 85
(b) 103
(c) 100
(d) 89
(e) 95

Q3. 4, 13, 17, ?, 30, 39
(a) 29
(b) 21
(c) 26
(d) 19
(e) None of these

Q4. 12, 7, 8, 13, 27, ?
(a) 75
(b) 76
(c) 60
(d) 65
(e) None of these

Q5. 5, 6, 14, 45, ?, 925
(a) 184
(b) 243
(c) 234
(d) 232
(e) None of these

Directions (6-10): What approximate value should come in place of the question mark (?) in the following questions?

Q6. 29.9% of 440 + 39.9% of 480 = ?
(a) 284

(b) 294
(c) 304
(d) 314
(e) 324

Q7. 0.0004 ÷ 0.0001 × 36.000009 = ?
(a) 0.10
(b) 1.44
(c) 144
(d) 14.4
(e) 1440

Q8. 63.9872 × 9375.01 ÷ 240.0034 = $(?)^2$
(a) 2489
(b) 2500
(c) 50
(d) 45
(e) 150

Q9. 4968.0346 ÷ 215.987 – 3726.112 ÷ 206.868 = ?
(a) 8
(b) 5
(c) 18
(d) 11
(e) 15

Q10. 989.001 + 1.00982 × 76.792 = ?
(a) 1000
(b) 1100
(c) 1067
(d) 110
(e) 100

Q11. Two pipes A and B together can fill a tank in 20 hours. Ratio of efficiency A to B is 5 : 4. They together filled the tank for the first 4 hours then B is closed and another pipe C is opened. Now if tank is filled in another 9 hours then C alone can fill the tank in how many hours.
(a) 90/7 hour
(b) 80/5 hour
(c) 180/11 hour
(d) 180/7 hour
(e) 90/11 hour

Q12. Present age of Sunita is 3 times the present age of Nita. 4 years hence twice the age of Sunita will be equal to thrice the age of Nita. Find the present age of Sunita.
(a) 2 years
(b) 5 years
(c) 9 years
(d) 6 years
(e) 4 years

Q13. Out of his income Mr Raj spends 20% on house rent and 70% of the rest on household expenditure. If he saves Rs. 3600 per month, then his total income per month in Rs. is
(a) 10000
(b) 15000
(c) 10500
(d) 12000
(e) None of these

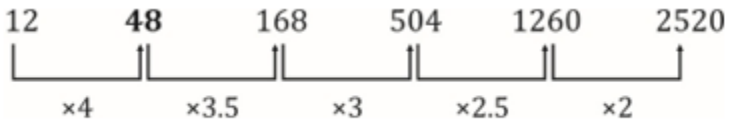
Q14. In how many different ways can the letters of the word 'BANKING' be arranged ?
(a) 5040
(b) 2540
(c) 5080
(d) 2520
(e) None of these

Q15. Rs. 120 is divided among X, Y and Z so that X's share is Rs. 20 more than Y's share and Rs. 20 less than Z,s share. What is Y's share?
(a) Rs. 40
(b) Rs. 30
(c) Rs. 25
(d) Rs. 20
(e) None of these

Solutions

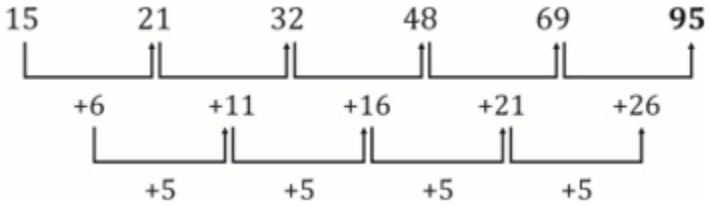
S1. Ans.(d)

Sol.



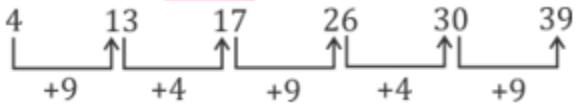
S2. Ans.(e)

Sol.



S3. Ans.(c)

Sol.



S4. Ans.(e)

Sol.

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

$27 \times 2.5 + 1 = 68.5$

S5. Ans.(a)

Sol.

$\times 1 + 1,\ \times 2 + 2,\ \times 3 + 3,\ \times 4 + 4,\ \times 5 + 5$

S6. Ans.(e)

Sol.

$? \approx \frac{30\times440}{100} + \frac{40\times480}{100} = 132 + 192 \approx 324$

S7. Ans.(c)

Sol.

$? = 4 \times 36 \approx 144$

S8. Ans.(c)

Sol.

$?^2 = 64 \times 9375 \div 240 = 2500$

Or, $? \approx 50$

S9. Ans.(b)

Sol.

$? \approx 23 - 18 = 5$

S10. Ans.(c)

Sol.

$?\approx 989 + 78 = 1067$

S11. Ans.(c)

Sol.

$$\text{A can fill alone in} = \frac{20 \times (5+4)}{5} = \frac{180}{5} = 36 \text{ hours}$$

$$\text{B can fill alone in} = \frac{20 \times (5+4)}{4} = \frac{180}{4} = 45 \text{ hours}$$

According to question

$$\frac{4}{20} + \frac{9}{36} + \frac{9}{C} = 1$$

$$\frac{9}{C} = \frac{11}{20}$$

$$C = \frac{180}{11} \text{hour}$$

S12. Ans.(e)

Sol.

Let present age of Nita = x
So present age of Sunita = $3x$
4 years hence
$2(3x + 4) = 3(x + 4)$
$6x + 8 = 3x + 12$
$3x = 4 \qquad x = \frac{4}{3}$
Present age of Sunita $= \frac{4}{3} \times 3 = 4$ years.

S13. Ans. (b)

Sol.
Let total income be x.
After spend 20% on house rent the amount left = $\frac{80x}{100}$
70% of rest on household expenditure
According to question
$\frac{80}{100} \times x \times \frac{30}{100} = 3600$
$x = \frac{3600}{80 \times 30} \times 10000 = Rs.15000$

S14. Ans.(d)

Sol.
Required number of ways = $\frac{7!}{2!}$ (since, N is repeated twice)
= 2520

S15. Ans.(d)

Sol.
X + Y+ Z = 120
X - Y = 20, X = Z – 20
⇒ (Y + 20) +Y + (X + 20) = 120
⇒ X + 2Y = 80
⇒ (Y + 20) + 2Y = 80
⇒ 3Y = 60
⇒ Y = 20