Quiz Date: 23rd August 2020

Q1. The present age of A and B in the ratio 7:12. 20 years ago, the age difference between A and B was 15 years. Then find out the sum of present ages of A and B?
(a) 57 years
(b) 53 years
(c) 76 years
(d) 38 years
(e) 45 years

Q2. A sum of Rs. 2180 is divided among A , B and C in such a way that $\frac{share\ of\ A}{share\ of\ B} = \frac{share\ of\ B}{share\ of\ C} = \frac{5}{7}$ then find out the share of C?
(a) Rs.980
(b) Rs.910
(c) Rs.780
(d) Rs.903
(e) Rs.994

Q3. Two trains A and B start moving at same time from P and Q towards each other. Speed of Faster train is 300 km/hr. and speed of slower train is 80% of that of faster train. If both trains meet at point Q after 11.75 hr. Find Ratio of distance covered by slower train to difference between distance covered by faster train and slower train?
(a) 4 : 1
(b) 5 : 1
(c) 3 : 2
(d) 9 : 4
(e) 9 : 5

Q4. The ratio of speeds of a boat in still water to that of the stream is 13:7.The boat goes a certain distance along with the current in 3 hours. Find the time taken to come back the same distance.
(a)8hours
(b)9hours
(c)10hours
(d)12hours
(e)13hours

Q5. Mr. Ravi invested an amount of Rs 51000 divided into two different schemes A and B at the simple interest 14% per annum and 11% per annum respectively. if the total amount of simple interest earned in three years be Rs 18360, what was the amount invested in scheme A?
(a)Rs 15000
(b) Rs 12000
(c) Rs 16000

(d) Rs 17000
(e) Rs 19000

Directions (6-10): Find out the approximate value which should replace the question mark (?) in the following questions. (You are not expected to find out the exact value)

Q6. 499.99 + 1999 ÷ 39.99 × 50.01 = ?
(a) 3200
(b) 2700
(c) 3000
(d) 2500
(e) 2400

Q7. 73.99% of 1299 + 9.98% of 1899 = ?
(a) 1250
(b) 1230
(c) 1150
(d) 1180
(e) 1200

Q8. 67% of 801 – 231.17 = ? – 23% of 789
(a) 490
(b) 440
(c) 540
(d) 520
(e) 590

Q9. $(15.95)^{\frac{1}{4}} + (3.01)^3 - 111.99 \times 2.02 + (9.98)^2 = ?$
(a) 95
(b) –95
(c) 105
(d) –105
(e) –115

Q10. 126.99% of 1539.98 + 5.5% of 149.99 + 103.98% of 7 = ?
(a) 1860
(b) 1970
(c) 2080
(d) 2150
(e) 1055

Directions (11-15): What should come in place of the question mark (?) in the following number series?

Q11. 3, 52, 88, 113, 129, ?

(a) 148
(b) 142
(c) 133
(d) 145
(e) 138

Q12.2, 3, 8, ?, 112, 565
(a) 36
(b) 14
(c) 27
(d) 45
(e) 54

Q13.6, 4, 8, 23, ?, 385.25
(a) 84.5
(b) 73
(c) 78.5
(d) 82
(e) 86

Q14.8, 64, 216, 512, ?, 1728
(a) 729
(b) 1331
(c) 684
(d) 1000
(e) 1004

Q15. 1, 1, 2, 6, 24, 120, 720, ?
(a) 4050
(b) 5060
(c) 5040
(d) 6050
(e) 4455

Solutions

S1. Ans (a)
Sol.
Let present age of A $= 7x$ years
And present age of B $= 12x$ years
Age difference always remains same
ATQ,
$12x - 7x = 15$
$x = 3$
So, sum of present age of A and B $= 7x + 12x = 19x = 19 \times 3 = 57$ years

S2. Ans (a)
Sol.
    A:B=5:7
And B:C=5:7
So, A:B:C=25:35:49

Share of C= $\frac{49}{25+35+49} \times 2180$
      =Rs.980

S3. Ans.(a)
Sol. As travelling time is constant so, ratio of speed will be equal to ratio of distance covered by them.
Ratio of distance covered by faster train to slower train
= 300 : 240
= 5 : 4
Required Ratio = 4 : (5 – 4) = 4 : 1

S4. Ans(c)
Sol. Let speed of boat in still water = 13x km/h and speed of stream = 7x km/h
time taken by boat in downstream = $\frac{D}{13x+7x}$
$3 = \frac{D}{20x}$
$D = 60x \ km$
$So, time \ taken \ by \ boat \ in \ upstream = \frac{D}{13x - 7x}$
$= \frac{60x}{6x}$
= 10 hours

S5. Ans.(d)
Sol. Let investment in scheme A = x Rs.
      investment in scheme B = (51000- x) Rs.
$\frac{x \times 14 \times 3}{100} + \frac{(51000 - x) \times 11 \times 3)}{100} = 18360$
$\frac{x}{100} = 170$
x = 17000 Rs

S6. Ans.(c)
Sol.
? $\approx 500 + 50 \times 50$
≈ 3000

S7. Ans.(c)
Sol.

$$? \approx \frac{74 \times 1300}{100} + \frac{10 \times 1900}{100}$$
$$\approx 960 + 190$$
$$\approx 1150$$

S8. Ans.(a)
Sol.

$$? \approx \frac{67 \times 800}{100} - 231 + \frac{23 \times 790}{100}$$
$$\approx 536 - 231 + 181.7$$
$$\approx 490$$

S9. Ans.(b)
Sol. 129-224=-95

S10. Ans.(b)
Sol. ?≈1956+8.25+7.28≈1970

S11. Ans.(e)
Sol. The pattern of the number series is+7^2, +6^2, +5^2, +4^2, +3^2
 ?=138

S12. Ans.(c)
Sol. The pattern of the number series is ×1+1, ×2+2, ×3+3, ×4+4, ×5+5
 ?=27

S13. Ans.(a)
Sol. The pattern of the number series is×0.5+1, ×1.5+2, ×2.5+3, ×3.5+4, ×4.5+5
 ?=84.5

S14. Ans.(d)
Sol. The number series is 2^3, 4^3, 6^3, 8^3, 10^3, 12^3
 ? = 1000

S15. Ans.(c)
Sol.
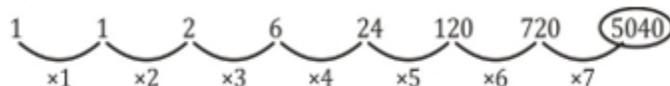
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