IBPS RRB Clerk Mains Memory Based Paper 1st Feb 2026 Quant

Direction (1-3): Read the information and answer the following questions.
There are three shops A, B and C selling furniture (tables and chairs).
In shop A, chairs sold are 33.33% less than tables, and the cost of each chair and each table is Rs.200 and Rs.240 respectively.
In shop B, tables sold is five more than that in shop A, and number of chairs sold is 80. The cost of each table and each chair is Rs.260 and Rs.210 respectively.
In shop C, number of tables sold is 150. The ratio of tables sold by B to C is 5:6. Total furniture sold by C is 270. The cost of each table sold is 50% more than that by A and cost of each chair is 20% more than that by B.

Q1. The number of chairs sold by shop D is the average number of tables sold by shop A and shop C. If two-fifth of the furniture sold by shop D is tables, then find the ratio of tables sold by shop D to that by shop B.
(a) 18:25
(b) 25:18
(c) 17:18
(d) 25:17
(e) 16:15

Q2. Find the difference between revenue generated (in Rs) by shop C by selling all the tables and the chairs.
(a) 23200
(b) 23820
(c) 23760
(d) 23225
(e) 23220

Q3. Total tables sold by shop B are 20% of those manufactured by B, and total unsold chairs by shop B are 60% of those manufactured. Find the total furniture manufactured by B.
(a) 800
(b) 820
(c) 720
(d) 825
(e) 280

Direction (4-8): Find the wrong number in the following number series.

Q4. 27, 40, 52, 66, 79, 92
(a) 27
(b) 40
(c) 52
(d) 66
(e) 79

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Q5. 32, 16, 24, 60, 220, 945
(a) 945
(b) 60
(c) 220
(d) 32
(e) 24

Q6. 5, 12, 26, 60, 110, 222
(a) 5
(b) 12
(c) 26
(d) 60
(e) 110

Q7. 25, 73, 153, 273, 441, 665, 950
(a) 950
(b) 25
(c) 441
(d) 153
(e) 73

Q8. 704, 690, 680, 665, 648, 629, 608
(a) 680
(b) 704
(c) 690
(d) 629
(e) 608

Direction (9-10): What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value)

Q9. 480.12+1/9 of 10.01+$\sqrt{98}$=?
(a). 438
(b). 494
(c). 491
(d). 456
(e). 444

Q10. $\sqrt{((39.91 \times 19.96) + (31.855 \times 5.024))} = ? - (3.95 \times 3.95)$
(a). 28
(b). 47
(c). 20
(d). 10
(e). 38

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Solutions

S1. Ans. (a)

Sol.

In shop A, Let the total chairs sold = 2x

So, total tables sold = $\frac{3}{2} \times 2x = 3x$

In shop B, Total tables sold = 3x + 5

Total chairs sold = 80

In shop C, Total tables sold = 150

Total chairs sold by B = $\frac{5}{6} \times 150 = 125$

125 = 5+ 3x

40 =x

Chairs sold by C = 270 – 150 = 120

Cost of each table sold by C = 150% of 240 = Rs.360

Cost of each chair sold by C = 120% of 210 = Rs.252

Shops	Total furniture	Total chairs	Total tables	Cost of each chair (in Rs.)	Cost of each table (in Rs.)
A	200	80	120	200	240
B	205	80	125	210	260
C	270	120	150	252	360

Chairs sold by D = $\frac{120+150}{2} = 135$

Total furniture sold by D = $\frac{5}{3} \times 135 = 225$

Required ratio = $\frac{225-135}{125} = \frac{90}{125} = \frac{18}{25}$

S2. Ans. (c)

Sol.

In shop A, Let the total chairs sold = 2x

So, total tables sold = $\frac{3}{2} \times 2x = 3x$

In shop B, Total tables sold = 3x + 5

Total chairs sold = 80

In shop C, Total tables sold = 150

Total chairs sold by B = $\frac{5}{6} \times 150 = 125$

125 = 5+ 3x

40 =x

Chairs sold by C = 270 – 150 = 120

Cost of each table sold by C = 150% of 240 = Rs.360

Cost of each chair sold by C = 120% of 210 = Rs.252

Shops	Total furniture	Total chairs	Total tables	Cost of each chair (in Rs.)	Cost of each table (in Rs.)
A	200	80	120	200	240
B	205	80	125	210	260
C	270	120	150	252	360

Required difference = $150 \times 360 - 120 \times 252$

$54000 - 30240 = Rs.\ 23760$

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S3. Ans. (d)
Sol.
In shop A, Let the total chairs sold = 2x
So, total tables sold = $\frac{3}{2} \times 2x = 3x$

In shop B, Total tables sold = 3x + 5
Total chairs sold = 80

In shop C, Total tables sold = 150
Total chairs sold by B = $\frac{5}{6} \times 150 = 125$
125 = 5+ 3x
40 =x
Chairs sold by C = 270 – 150 = 120
Cost of each table sold by C = 150% of 240 = Rs.360
Cost of each chair sold by C = 120% of 210 = Rs.252
Total tables manufactured by B = $\frac{5}{1} \times 125 = 625$
Total chairs manufactured by B = $\frac{100}{40} \times 80 = 200$
Total furniture manufactured by B = 625+200 = 825

Shops	Total furniture	Total chairs	Total tables	Cost of each chair (in Rs.)	Cost of each table (in Rs.)
A	200	80	120	200	240
B	205	80	125	210	260
C	270	120	150	252	360

S4. Ans. (c)
Sol.
13 × 2 + 1 = 27
13 × 3 + 1 = 40
13 × 4 + 1 = 53
13 × 5 + 1 = 66
13 × 6 + 1 = 79
13 × 7 + 1 = 92

S5. Ans. (c)
Sol.
32 × (1/2) = 16
16 × (3/2) = 24
24 × (5/2) = 60
60 × (7/2) = 210
210 × (9/2) = 945

S6. Ans. (d)
Sol.
5 × 2 + 2 = 12
12 × 2 + 2 = 26
26 × 2 + 2 = 54
54 × 2 + 2 = 110
110 × 2 + 2 = 222

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S7. Ans. (a)
Sol. Wrong number = 950
Pattern of series:
$25 + (7^2 - 1) = 73$
$73 + (9^2 - 1) = 153$
$153 + (11^2 - 1) = 273$
$273 + (13^2 - 1) = 441$
$441 + (15^2 - 1) = 665$
$665 + (17^2 - 1) =$ **953**

S8. Ans. (c)
Sol. The pattern of the series:

704,	**693**,	680,	665,	648,	629,	608
	11	13	15	17	19	21

S9. Ans. (c)
Sol.
480+1/9 of 9+√100=?
480+1+10=?
491 = ?

S10. Ans. (b)
Sol.
√((40× 20) + (32 × 5)) = ? - (4 × 4)
√(800+ 160)) = ? - (4 × 4)
√(960)) = ? - (4 × 4)
31 = ? – 16
? = 47

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