

# Memory Based Paper



RRB CLERK PRELIMS  
2019

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**IBPS RRB CLERK PRE FIRST SHIFT 2019, MEMORY BASED PAPER (Quant)**

**Number Series**

- 1) 1,2,5,16,65,328,1957- Ans:328
- 2) 4,11,25,46,74,129,151-Ans: 129
- 3) 84,96,83,95,80,94,81-Ans: 80
- 4) 3,5,8,17,33,58,94- Ans: 5

**Quadratic Equation**

- (a) if  $x > y$
- (b) if  $x < y$
- (c) if  $x \geq y$
- (d) if  $x \leq y$
- (e) if  $x = y$  or there is no relation between  $x$  and  $y$

6) I.  $x^2 - 5x - 14 = 0$

II.  $y^2 - 16y + 64 = 0$

I.  $x^2 - 5x - 14 = 0$

$\Rightarrow x^2 - 7x + 2x - 14 = 0$

$\Rightarrow x(x - 7) + 2(x - 7) = 0$

$\Rightarrow (x - 7)(x + 2) = 0$

$\Rightarrow x = 7, -2$

II.  $y^2 - 16y + 64 = 0$

$\Rightarrow (y - 8)^2 = 0$

$\Rightarrow y = 8, 8$

$\Rightarrow y > x$

7) I.  $x^2 - 9x + 20 = 0$

II.  $y^2 - 7y + 12 = 0$

I.  $x^2 - 9x + 20 = 0$

$\Rightarrow x^2 - 5x - 4x + 20 = 0$

$\Rightarrow (x - 5)(x - 4) = 0$

$\Rightarrow x = 5, 4$

II.  $y^2 - 7y + 12 = 0$

$\Rightarrow y^2 - 4y - 3y + 12 = 0$

$\Rightarrow (y - 4)(y - 3) = 0$

$\Rightarrow y = 4, 3$

$x \geq y$

8) I.  $2x^2 + 11x + 12 = 0$

II.  $4y^2 + 13y + 10 = 0$

I.  $2x^2 + 11x + 12 = 0$

$$\Rightarrow 2x^2 + 8x + 3x + 12 = 0$$

$$\Rightarrow (x + 4) (2x + 3) = 0$$

$$\Rightarrow x = -4, -\frac{3}{2}$$

$$\text{II. } 4y^2 + 13y + 10 = 0$$

$$\Rightarrow 4y^2 + 8y + 5y + 10 = 0$$

$$\Rightarrow (y + 2) (4y + 5) = 0$$

$$\Rightarrow y = -2, -\frac{5}{4}$$

No relation

$$9) \text{ I. } 2x^2 - 5x + 2 = 0$$

$$\text{II. } 2y^2 - 9y + 7 = 0$$

$$10) \text{ I. } 6x^2 - x - 1 = 0$$

$$\text{II. } 8y^2 - 2y - 1 = 0$$

$$\text{I. } 6x^2 - x - 1 = 0$$

$$6x^2 - 3x + 2x - 1 = 0$$

$$\Rightarrow (2x - 1) (3x + 1) = 0$$

$$\Rightarrow x = \frac{1}{2}, -\frac{1}{3}$$

$$\text{II. } 8y^2 - 2y - 1 = 0$$

$$\Rightarrow 8y^2 - 4y + 2y - 1 = 0$$

$$\Rightarrow (2y - 1) (4y + 1) = 0$$

$$\Rightarrow y = \frac{1}{2}, -\frac{1}{4}$$

No relation

## Simplification

**Direction- (11-20)**

$$11) [(2 \times 1/4) + 4] \times 8 = ? \times 10$$

$$12) (? - 0.5) \div 0.2 = 120 \div 2$$

$$13). 80\% \text{ of } (1.5 \times 4 + ?) = 24$$

$$\frac{80}{100} \times (6 + ?) = 24$$

$$6 + ? = 30$$

$$? = 24$$

14)  $60\% \text{ of } ? - \sqrt{324} = 222$

$$\frac{60}{100} \times ? - 18 = 222$$

$$\frac{60}{100} \times ? = 240$$

$$? = \frac{240 \times 100}{60}$$

$$? = 400$$

15)  $60\% \text{ of } ? - \sqrt{324} = 222$

$$\frac{60}{100} \times ? - 18 = 222$$

$$\frac{60}{100} \times ? = 240$$

$$? = \frac{240 \times 100}{60}$$

$$? = 400$$

16)  $(? - 0.5/0.2) = 120/2$

$$(? - 0.5) = 60 \times 0.2$$

$$? = 12 + 0.5 = 12.5$$

17)  $(34.5 \times 14 \times 42) \div 2.8 = ?$

Ans: 7245

18)  $(216)^4 \div (36)^4 \times 65 = (6)^?$

Ans: 9

19)  $3(2/5) + 1(2/9) = 4(4/5) - ?$

Ans: 8/45

20).

## Table DI

**Directions (21-25):** Following are the details of three shopkeepers and numbers of books sold by them on three different days

Shopkeepers	Tuesday	Thursday	Saturday
X	320	480	420
Y	400	360	160
Z	300	330	140

21. Books sold by X and Y together on Thursday is what percentage of books sold by Y and Z on Saturday ?

Total items sold by X & Y on Thursday = 480 + 360 = 840

Total items sold by Y and Z Saturday = 160 + 140 = 300

Required percentage =  $\frac{840}{300} \times 100 = 280\%$

22. Find the ratio of books sold by X on all 3 days together to the books sold by Z on all 3 days?

Total books sold by X on all 3 days = 320 + 400 + 300 = 1020

Total books sold by Z on all 3 days = 420 + 160 + 140 = 720

Required ratio =  $\frac{1020}{720} = 17 : 12$

23. Find the ratio of books sold by X and Y together on Tuesday to books sold by Y and Z together on Saturday ?

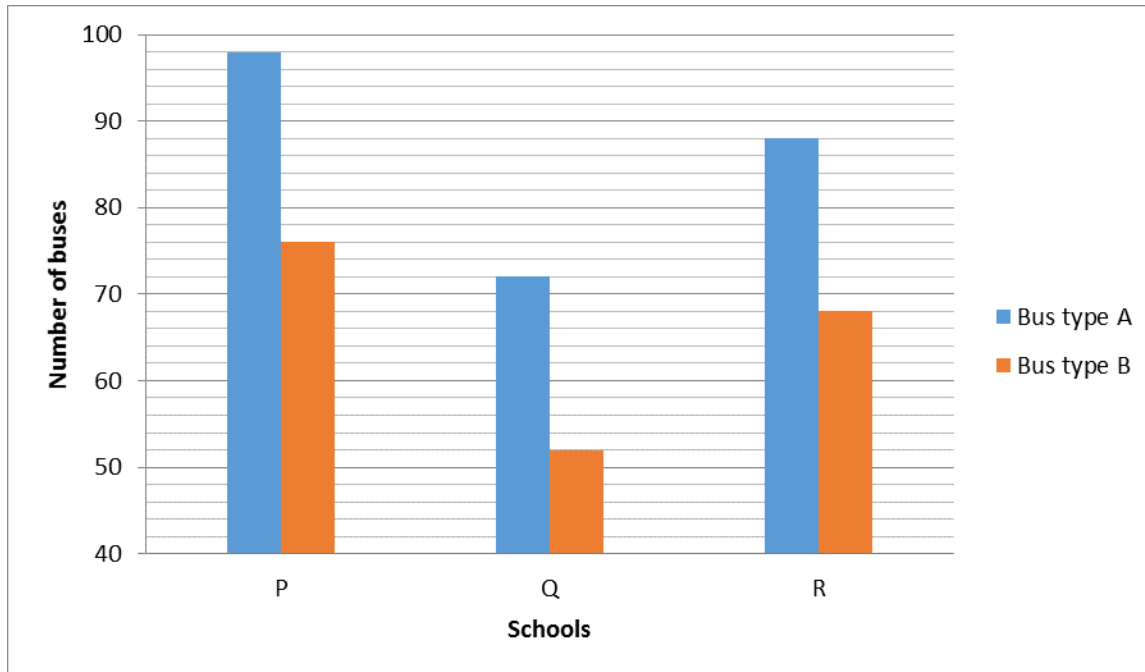
Required ratio =  $\frac{320+400}{160+140}$   
 $= \frac{720}{300} = 12 : 5$

24. Find the average number of books sold by all 3 shopkeepers on Saturday ?

Required average =  $\frac{420+160+140}{3}$   
 $= \frac{720}{3} = 240$

### Bar DI

**Directions (26-30):** Given bar graph shows the data of two types of school buses A and B for three schools P, Q and R. Study the chart carefully and answer the following questions.



26. What is the average number of all the buses in school Q?

$$\begin{aligned} \text{Required average} &= \frac{72+52}{2} \\ &= \frac{124}{2} = 62 \end{aligned}$$

27. What is the difference of average number of all buses in school P and average number of all buses in school Q?

$$\begin{aligned} \text{Average number of all buses in P} &= \frac{96+76}{2} \\ &= \frac{172}{2} = 86 \end{aligned}$$

$$\begin{aligned} \text{Average number of all buses in R} &= \frac{88+68}{2} \\ &= \frac{156}{2} = 78 \end{aligned}$$

$$\text{Required difference} = 86 - 78 = 8$$

28. What is the average number of type A buses in school Q and school R together?

$$\begin{aligned} \text{Required average} &= \frac{72+88}{2} \\ &= \frac{160}{2} = 80 \end{aligned}$$



29. A type buses in school P are what percent much more than that of same type of buses in school Q?

$$\begin{aligned} \text{Required percentage} &= \frac{96-72}{72} \times 100 \\ &= \frac{24}{72} \times 100 \\ &= 33\frac{1}{3}\% \end{aligned}$$

### Arithmetic Word Problems

**31) Tap A fill the tank in 36 min. and Tap B fill the tank in 60 min. then in how much time both tap A and B fill the 1/6th part of tank?**

Let the capacity of the tank be 180 units (LCM of 36 and 60)

Efficiency of tap A=5 units/ min

Efficiency of tap B=3 units/min

$\frac{1}{6}$ th of the tank= 30 units

$$\text{Required time} = \frac{30}{5+3} = 3\frac{3}{4} \text{ min}$$

**32) A's income is 1/3rd of the B's income. Both A and B are expend 15 % on rent. A and B savings are 85 rs and 255 rs .Calculate how much amount A expend on rent?**

**33) Total cost of x pens and (x-2) pencils is Rs 424. If one pencil and one pen costs Rs 4 and Rs 20 respectively then find x?**

$$20x + 4 \times (x - 2) = 424$$

$$24x = 432$$

$$x = 18$$

**34) Not Remember.....**

**35) Marked price of an article is Rs 250 more than cost price of that article and it is sold at a discount of 15% on marked price. Find the cost price of the article if the profit percent earned is 27.5%?**

Let M.P= Rs 100x

Then S.P= Rs 85x

Cost price= $Rs \frac{200}{3}x$

$$100x - \frac{200}{3}x = 250$$

$$x = 7.5$$

Cost price=Rs 500

**36) Speed of a boat in still water is 8 km/h. It takes 5 hours to go upstream and 3 hours downstream distance between two points. What is the speed of stream?**

Let speed of stream = r km/h

$$(8 - r) \times 5 = (8 + r) \times 3$$

$$\Rightarrow 40 - 5r = 24 + 3r$$

$$\Rightarrow r = \frac{16}{8} = 2 \text{ km/h}$$

37) Not Remember.....

38) Speed of a train is 90 km/h. It crosses a platform and a pole in 36 seconds and 6 seconds respectively. Find the length of platform.

$$\text{Length of train} = 90 \times \frac{5}{18} \times 6$$

$$= 150 \text{ m}$$

$$\therefore \text{length of platform} = \frac{5}{18} \times 90 \times 36 - 150$$

$$= 750 \text{ m}$$

39) If circumference of first circle is 132 cm and circumference of second circle is 110 cm then find the difference between area of both the circle?

$$\text{Radius of first circle} = \frac{132 \times 7}{2 \times 22} = 21 \text{ cm}$$

$$\text{Area of first circle} = \frac{22}{7} \times 21 \times 21 = 1386 \text{ cm}^2$$

$$\text{Radius of second circle} = \frac{110 \times 7}{2 \times 22} = 17.5 \text{ cm}$$

$$\text{Area of second circle} = \frac{22}{7} \times 17.5 \times 17.5 = 962.5 \text{ cm}^2$$

$$\text{Required difference} = 423.5 \text{ cm}^2$$

40) . Ram is 6 years younger than Syam and ratio of present age of Sayam to Arun is 12:5. If ratio of present age of Ram to Arun is 2:1 then find present age of Syam?

Let present age of Sayam and Arun be 12x years and 5x years respectively.

present age of Ram = 10x years

$$12x - 10x = 6$$

$$x = 3$$

Present age of Sayam = 36 years

## 2<sup>nd</sup> Shift Paper

### QUADRATIC EQUATION :

1).  $x^2 + 14x + 48 = 0$

$y^2 + 16y + 63 = 0$

2).  $2x^2 - 7x + 3 = 0$

$y^2 - 7y + 12 = 0$

3).  $x^2 - 9x + 20 = 0$



$$Y^2 - 15y + 54 = 0$$

**WRONG NUMBER SERIES :**

- 1). 2, 4, 11, 38, 102, 227, 443
- 2). 5, 4, 7, 20, 79, 396, 2363
- 3). 2.1, 1.5, 2.7, 0.9, 3.5, 0.3, 3.9
- 4). 4, 7, 11, 17, 26, 41, 57

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