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Reasoning, Quant, English
PDF
**Memory based
IBPS PO PRE
2018**
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Quantitative

Quadratic equation (6 questions)

Question 1: $3x^2 + 11x + 10 = 0$

$$2y^2 + 11y + 14 = 0$$

Question 2: $12x^2 + 11x + 2 = 0$

$$12y^2 + 7y + 1 = 0$$

Question 3: $2x^2 + 9x + 9 = 0$

$$15y^2 + 16y + 4 = 0$$

Question 4: $6x^2 - 11x + 4 = 0$

$$3y^2 - 5y + 2 = 0$$

Question 5: $6x^2 - 11x + 4 = 0$

$$3y^2 - 5y + 2 = 0$$

Question 6: $21x^2 + 10x + 1 = 0$

$$24x^2 + 26y + 5 = 0$$



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Wrong number Series (6 questions):

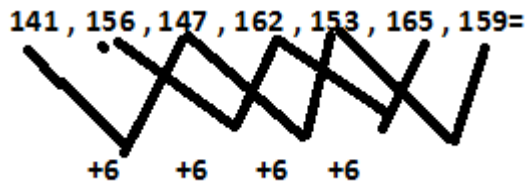
Question 1: 0.5 , 2 , 1 , 4 , 32 , 512 = $\times 1, \times 2, \times 4, \times 8, \times 16$ (2 is wrong)

Question 2: 251 , 252 , 254 , 227 , 243 , 1181 = $-1^3, +2^2, -3^3, +4^2, -5^3, +6^2$ (252 is wrong)

Question 3: 4 , 5.1 , 7.3 , 10.6 , 15 , 20 , 27.1 = 1.1, 2.2, 3.3, 4.4, 5.5, 6.6

Question 4: 2 , 3 , 8 , 31 , 154 , 924 , 6460 = $\times 2-1, \times 3-1, \times 4-1, \times 5-1, \times 6-1, \times 7-1$ (924 is wrong)

Question 5: 141 , 156 , 147 , 162 , 153 , 165 , 159 = (165 is wrong number)



Question 6: 2 , 6 , 10 , 19 , 36 , 69 , 134 = (6 is wrong number)

3 5 9 17 33 65

$\times 2-1$ $\times 2-1$ $\times 2-1$ $\times 2-1$ $\times 2-1$

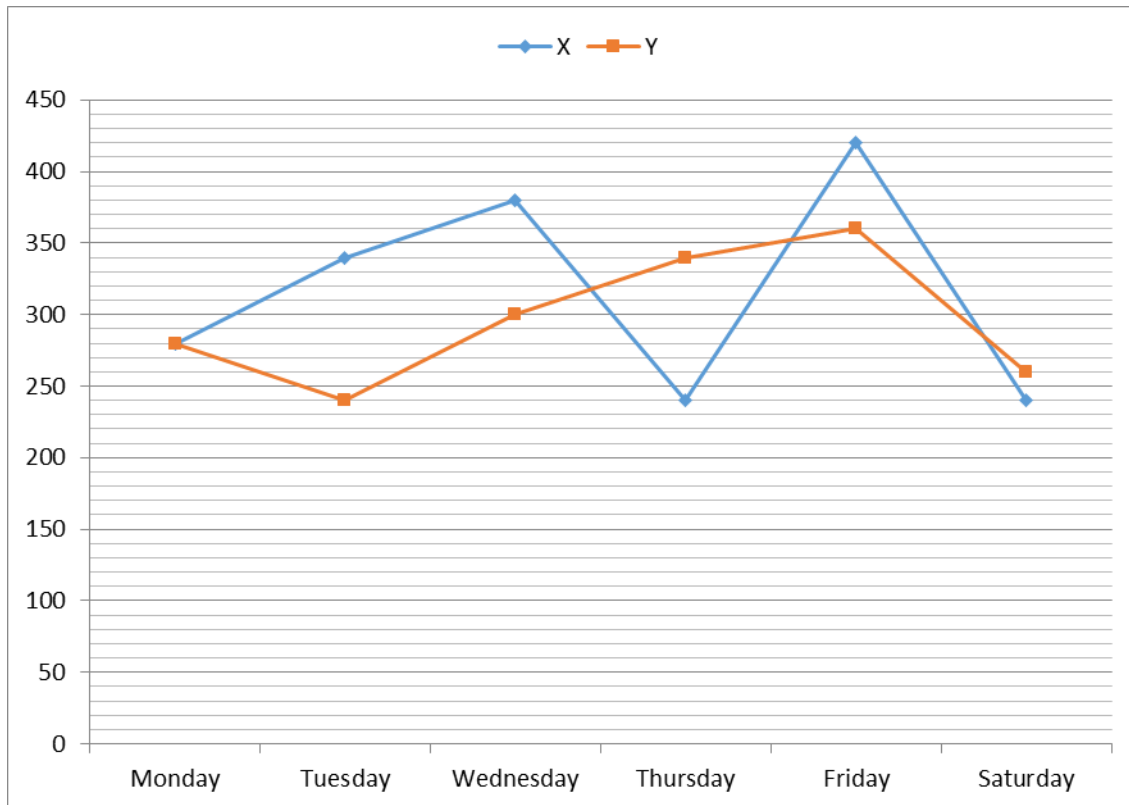
Line graph D.I (5 questions)



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Question 1: Total number of book by store X on Monday and Tuesday together is what percent (approx.) more than the total number of book sold by same store on Friday?

Total number of book by store X on Monday and Tuesday = $280 + 340 = 620$

$$\begin{aligned} \text{Required percentage} &= \frac{620 - 420}{420} \times 100 \\ &= 47.61\% \approx 48\% \end{aligned}$$

Question 2. Find the difference between total books sold by store X on Tuesday, Wednesday & Friday together and total number of books sold by store Y on Monday, Friday & Saturday together?

Total books sold by store X on Tuesday, Wednesday & Friday
 $= (340 + 380 + 420)$
 $= 1140$

Total number of books sold by store Y on Monday, Friday & Saturday



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$$= 280 + 360 + 260$$

$$= 900$$

$$\text{Required difference} = 1140 - 900 = 240$$

Question 3. If ratio between total books sold by store X on Wednesday by online mode to offline mode is 11 : 8 and total books sold by online mode on Wednesday equal to total books sold by offline mode on by store Y on Saturday, then find total books sold by store Y on Saturday by online mode?

$$\text{Total books sold by offline mode on by store Y on Saturday} = 380 \times \frac{11}{19} = 220$$

$$\text{Total books sold by store Y on Saturday by online mode} = 260 - 220 = 40$$

Question 4. If total number of books sold by store X & Y on Sunday increased by 20% and 30% compared to total books sold by both stores on Thursday respectively. Find difference between total books sold by both stores on Friday and on Sunday?

Total number of books sold by store X & Y on Sunday

$$= 240 \times \frac{120}{100} + 340 \times \frac{130}{100}$$

$$= 730$$

Total books sold by both stores on Friday

$$= 420 + 360$$

$$= 780$$

$$\text{Required difference} = 780 - 730 = 50$$

Question 5. Find average number of books sold by store Y on Monday, Wednesday, Friday & Saturday?

Total number of books sold by store Y on Monday, Wednesday, Friday & Saturday

$$= 280 + 300 + 360 + 260$$

$$= 1200$$

$$\text{Required average} = \frac{1200}{4}$$

$$= 300$$

Miscellaneous



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Q1. In a class there is 30 girls and 15 boys. If average weight of class is $47\frac{7}{15}$ kg and average weight of boys is 58 kg, then find average weight of girls?

$$\text{Total weight of class} = \frac{712}{15} \times (30 + 15) = 2136 \text{ kg}$$

$$\text{Total weight of boys} = 15 \times 58 = 870 \text{ kg}$$

$$\text{Total weight of girls} = 2136 - 870 = 1266 \text{ kg}$$

$$\text{Required average} = \frac{1266}{30} = 42.2 \text{ kg}$$

Q2. A man invested an amount at the rate of 15% p.a. on simple interest and gets a total interest of Rs, 1950 at the end of two years, if man invested Rs, x additional in with earlier invested amount at the rate of 10% p.a. and gets a total amount of Rs. 10890, then find 'x'?

$$\begin{aligned} \text{Principle} &= \frac{1950 \times 2}{15 \times 2} \\ &= 6500 \end{aligned}$$

ATQ -

$$10890 = (6500 + x) \left(1 + \frac{10}{100}\right)^2$$

$$1.21x = 10890 - 7865$$

$$1.21x = 3025$$

$$x = 2500 \text{ Rs.}$$

Q3. A and B invested Rs. 1200 and Rs. X in a business, after 6 months A added equal amount B invested initially and B doubles his investment. If at the end of a year A & B got profit in the ratio of 7 : 9, then find initial investment of B?

$$\begin{aligned} \text{Investment ratio of A \& B} &= (1200 \times 6 + X \times 6) : (X \times 6 + 2X \times 6) \\ &= (6X + 7200) : 18X \end{aligned}$$

ATQ -

$$\frac{(6X + 7200)}{18X} = \frac{7}{9}$$

$$14X = 6X + 7200$$

$$X = 900 \text{ Rs.}$$

Q4. Ratio of height and radius of a cylinder is 4 : 3 and volume of cylinder is 4851 m^3 . If breadth of a rectangle is equal to height of cylinder and perimeter of rectangle is 80 m, then find area of rectangle?

Let height and radius of a cylinder be $4x$ and $3x$ respectively

$$\frac{22}{7} \times (3x)^2 \times 4x = 4851$$



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$$36x^3 = 1543.5$$

$$x^3 = 42.875$$

$$x = 3.5 \text{ m}$$

Breath of rectangle = 14 m

$$\text{Length of rectangle} = 2(l + 14) = 80$$

$$l = 26 \text{ m}$$

$$\text{Area of rectangle} = 14 \times 26 = 364 \text{ m}^3$$

0 work together and after 16 days C joined them, if remaining work complete in 3 more days, then find in how many day C alone complete the whole work.

Let Efficiency of A & B be $7x$ and $5x$ respectively

$$\text{Total work} = 20 \times (7x + 5x) = 240x \text{ units}$$

$$\text{In 16 days work did by A \& B together} = 12x \times 16 = 192x \text{ units}$$

$$\text{Remaining work} = 240x - 192x = 48x$$

$$\text{Efficiency of C} = \frac{48x}{3} - 12x = 4x \text{ units}$$

$$\text{C alone} = \frac{240x}{4x} = 60 \text{ days}$$

Q6. A man travels from A to B and B to C with the speed of 90 km/hr and 60 km/hr respectively. If total distance between A to C is 200 km and average speed of whole journey is 75 km/hr, then find distance between A to B?

Let distance between A to B and B to C is a km and b km

ATQ -

$$75 = \frac{200}{\frac{a}{90} + \frac{b}{60}}$$

$$2a + 3b = 480 \text{ ----- (i)}$$

Also given,

$$a + b = 200 \text{ ----- (ii)}$$

From (i) & (ii) we get

$$a = 120 \text{ km}$$

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