

Quiz Date: 13th September 2020

Directions (1-3): In the following questions, two equations numbered I and II are given. You have to solve both questions and give answer among the following options.

Q1.

I. $x + 3y = 3$

II. $81x + 5y = 5$

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) if $x = y$ or the relationship cannot be established.

Q2.

I. $x^2 + 5x + 6 = 0$

II. $y^2 - 7y + 10 = 0$

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) if $x = y$ or the relationship cannot be established.

Q3.

I. $x^2 - 4x - 21 = 0$

II. $y^2 - 36 = 0$

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) if $x = y$ or the relationship cannot be established.

Q4. The ratio of four wheelers and two wheelers in the parking is 11 : 25 respectively. The average number of four wheelers and two wheelers in the parking be 324. Find the number of two wheelers in the parking?

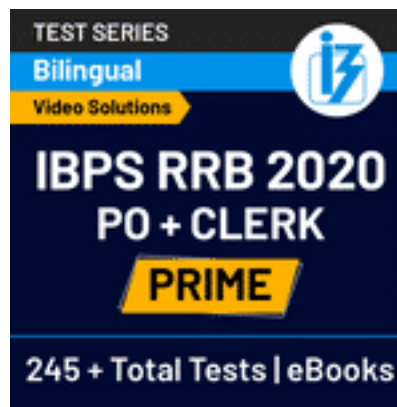
- (a) 410
- (b) 405
- (c) 420
- (d) 450
- (e) 518

Q5. 2 men and 3 women can complete a piece of work in 20 days while 3 men and 2 women can complete the same work in 16 days. Find out in how many days 2 men and 1 woman can complete the same work?

- (a) 24 days
- (b) 25 days
- (c) 26 days
- (d) 27 days
- (e) 28 days

Q6. Age of A is twice the age of B. 8 years ago, age of A was four times that of B. Find the age of B 8 years hence?

- (a) 18 years.
- (b) 14 years.
- (c) 16 years.
- (d) 28 years.
- (e) 20 years.



Directions (7-8): In the following questions, calculate quantity I and quantity II, compare them and answer

- (a) If quantity I > quantity II
- (b) If quantity I < quantity II
- (c) If quantity I \geq quantity II
- (d) if quantity I \leq quantity II
- (e) if quantity I = quantity II or no relation can be established

Q7. Quantity I- the distance (in km), covered by a train in 5 hours, it covers same distance in 1 hour early if its speed increased by 30 km/h.

Quantity II- 600 km

Q8. Quantity I- X , 40% of $X = 40\%$ of $200 + 30\%$ of 100 .

Quantity II- Y , 25% of $Y = 35\%$ of $240 + 25\%$ of 120 .

Directions (9-10): What will come at the place of question mark (?) in the following questions.

Q9. 6, 15, 35, 77, 143, 221, ?

- (a) 250
- (b) 363
- (c) 243
- (d) 323

(e) 343

Q2. 9, 13, 21, 37, 69, 133, 261, ?

(a) 469

(b) 433

(c) 420

(d) 561

(e) 517

Directions (11-15): Study the table carefully and answer the questions.

Table given below shows percentage of books sold of 3 different publications by five different seller in a month.

Note: Books are sold by three publication only.

Sellers	Books sold of Adda Pub.	Books sold of 'XY' Pub.	Books sold of 'YZ' pub.
A	480	24%	16%
B	780	20%	15%
C	25%	650	10%
D	10%	30%	540
E	30%	20%	550

Q11. Books sold by seller B of XY and YZ pub. Together is how much more/less than books sold by E of Adda & YZ publications together?

(a) 360

(b) None of these

(c) 380

(d) 420

(e) 460

Q12. Books sold by seller C of Adda & XY together is what percent of total books sold by seller D ?

(a) 100%

(b) 80%

(c) None of these

(d) 150%

(e) 120%

Q13. What is average number of books sold by all sellers of Adda publication ?

(a) 392

(b) 386

(c) 406

(d) None of these

(e) 414

Q14. If selling price of each book of Adda publication sold by seller C is Rs. 250 and selling price of each book of XY publication sold by seller D is Rs. 220. Then find the difference in selling price of books of Adda publication sold by C and XY publication sold by D ?

- (a) Rs. 4500
- (b) Rs. 2900
- (c) Rs. 3600
- (d) Rs. 3100
- (e) Rs. 4200

Q15. If profit made on each book sold by seller E is Rs. 44. Then find profit percent of each book sold by seller E ? (given that selling price of each book is Rs. 264)

- (a) 22%
- (b) 25%
- (c) 20%
- (d) 15%
- (e) 30%

Solutions

S1. Ans(c)

Sol.

$$I. x + 3y = 3$$

$$II. 81x + 5y = 5$$

equation (I) \times 81 - eq (II)

On solving both equations

$$y = 1$$

from eqn (1)

$$x + 3 = 3$$

$$x = 0$$

$$\text{So, } x < y$$

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S2. Ans(c)

Sol.

I.

$$x^2 + 5x + 6 = 0$$

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

$$(x + 3)(x + 2) = 0$$

$$x = -3, -2$$

$$II. y^2 - 7y + 10 = 0$$

$$y^2 - 5y - 2y + 10 = 0$$

$$(y - 5)(y - 2) = 0$$

$$y = 2, 5$$

$$\text{So, } x < y$$

S3. Ans(e)

Sol.

$$I. x^2 - 4x - 21 = 0$$

$$x^2 - 7x + 3x - 21 = 0$$

$$(x - 7)(x + 3) = 0$$

$$x = 7, -3$$

$$II. y^2 - 36 = 0$$

$$y^2 = 36$$

$$y = \pm 6$$

So, No relation betⁿ x and y.



S4. Ans. (d)

Sol.

Let no. of four wheelers and two wheelers be $11x$ and $25x$ respectively.

ATQ,

$$\frac{11x + 25x}{2} = 324$$

$$18x = 324$$

$$25x = \frac{324}{18} \times 25 = 450$$

two wheelers = 450

S5. Ans. (b)

Sol.

$$(2M + 3W) \times 20 = (3M + 2W) \times 16$$

$$\frac{M}{W} = \frac{7}{2}$$

ATQ,

Let required time t days.

$$(2M + 1W) \times t = (2M + 3W) \times 20$$

$$t = \frac{(2 \times 7 + 3 \times 2) \times 20}{(2 \times 7 + 2)} = 25 \text{ days}$$

S6. Ans. (e)

Sol.

Let age of B = x years.

And A = $2x$.

ATQ,

$$2x - 8 = 4 \times (x - 8)$$

$$2x = 24$$

$$x = 12 \text{ years.}$$

$$\text{B's age 8 years hence} = 12 + 8 = 20 \text{ years.}$$

S7. Ans. (e)

Sol.

Quantity I

ATQ,

$$\frac{D}{4} - \frac{D}{5} = 30$$

$$D = 600 \text{ km.}$$

So, Quantity I = Quantity II.

S8. Ans. (b)

Sol.

Quantity I.

$$\frac{2}{5} \times X = 40\% \text{ of } 200 + 30\% \text{ of } 100.$$

$$\frac{2}{5} X = 110$$

$$X = 275$$

Quantity II.

$$\frac{Y}{4} = 114$$

$$Y = 456.$$

Quantity I < Quantity II

S9. Ans.(d)

Sol.

$$2 \times 3 = 6$$

$$3 \times 5 = 15$$

$$5 \times 7 = 35$$

$$7 \times 11 = 77$$

$$11 \times 13 = 143$$

$$13 \times 17 = 221$$

$$17 \times 19 = 323$$

So, ? = 323

S10. Ans.(e)

Sol.

$$9 + 4 = 13$$

$$13 + 8 = 21$$

$$21 + 16 = 37$$

$$37 + 32 = 69$$

$$69 + 64 = 133$$

$$133 + 128 = 261$$

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$$261 + 256 = 517$$

S11. Ans.(e)

Sol.

Books sold of XY and YZ publications together by seller B

$$= \frac{780}{65} \times 35 = 420$$

Books sold of Adda & YZ publication together by seller E

$$= \frac{550}{50} \times 30 + 550$$

$$= 330 + 550 = 880$$

$$\text{Required difference} = 880 - 420 = 460$$

S12. Ans.(a)

Sol.

Books sold of Adda & XY publication together by seller C

$$= \frac{650}{65} \times 25 + 650$$

$$= 250 + 650$$

$$= 900$$

Total book sold by D

$$= \frac{540}{60} \times 100$$

$$= 900$$

$$\text{Required \%} = \frac{900}{900} \times 100 = 100\%$$

S13. Ans.(b)

Sol.

$$\text{Required Avg.} = \frac{1}{5} \left[480 + 780 + \frac{650}{65} \times 25 + \frac{540}{60} \times 10 + \frac{550}{50} \times 30 \right]$$

$$= \frac{480+780+250+90+330}{5}$$

$$= \frac{1930}{5} = 386$$

S14. Ans.(d)

Sol.

$$\text{Required difference} = \left(\frac{650}{65} \times 25 \times 250 \right) - \left(\frac{540}{60} \times 30 \times 220 \right)$$

$$= 62500 - 59400$$

$$= 3100$$

S15. Ans.(c)

Sol.

$$\text{Cost price of each book} = 264 - 44 = 220$$

$$\therefore \text{Profit \%} = \frac{44}{220} \times 100 = 20\%$$

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