Quiz Date: 18th July 2020

Directions (1-5):The following questions are accompanied by three statements A, B and C. You have to determine which statement(s) is/are necessary/sufficient to answer the question.

Q1. What will be the average of three numbers?
A. The largest number is greater than the smallest by 20.
B. The sum of the largest and smallest number is equal to twice the middle one.
C. The difference of the first two numbers is 10.
(a) Only A and C together
(b) Only B and C together
(c) Any two of them
(d) Question can't be answered even after using all the statements
(e) All statements are required

Q2. What is the cost price of a table?
A. By selling the table at Rs. 600 instead of Rs. 500, loss per cent decreases by 10%.
B. When the cost price of the table increases by 10% and then decreases by 10%, it reduces by Rs. 10.
C. By selling the table and a chair for Rs. 1500 a net profit of 25% is made.
(a) Only A or B alone
(b) Only B or C alone
(c) Only A and C together
(d) Any two of them together
(e) Either B alone or A and C together are sufficient

Q3. A bag contains balls of three different colours i.e., red, yellow and green. 3 balls are drawn randomly. What is the probability that the balls drawn are of three different colours?
A. The no. of yellow balls is two more than the no. of red balls.
B. The sum of the no. of yellow and green balls is three times the no. of red balls.
C. The ratio of the no. of red balls to that of green balls is 3 : 4.
(a) A and either B or C
(b) Any two of them
(c) Only A and C together
(d) Question can't be answered even after using all the information
(e) All statements are required

Q4. A boat takes 2 hours to travel from point A to B in still water. To find out speed in upstream, which of the following information is/are required?
A. Distance between point A and B.
B. Time taken to travel downstream from B to A.
C. Speed of the stream of water.
(a) All are required
(b) Any one pair from A and B, B and C or C and A is sufficient.
(c) Only A and B

(d) Only A and C
(e) None of these

Q5. What is the perimeter of a rectangular garden?
I. The area of the garden is 2400 sq.metres.
II. The diagonal of the garden is 50 metres.
III. The ratio between the length and the breadth of the garden is 3 : 2.
(a) All I, II and III together are required
(b) Any two of I, II and III are sufficient
(c) Only I and II are required
(d) Only II and III are required
(e) None of these
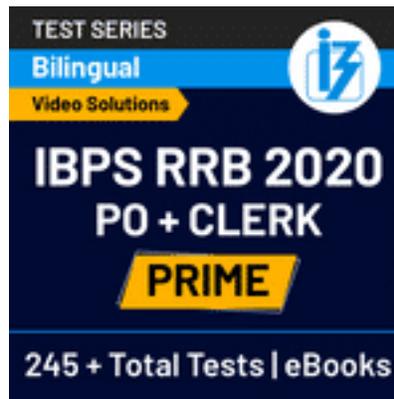
Directions (6-15): What **approximate** value will come in place of the question mark (?) in the following questions? (You are not expected to calculate the exact value).

Q6. $\sqrt{624.98} + \sqrt{729.25} = ?$
(a) 58
(b) 56
(c) 52
(d) 61
(e) 62

Q7. $(41.33)^2 + (7.96)^2 - (22.02)^2 = ?$
(a) 1260
(b) 1440
(c) 1580
(d) 1540
(e) 1380

Q8. 41% of 601 – 250.17 = ? – 77% of 910
(a) 800
(b) 500
(c) 690
(d) 650
(e) 550

Q9. $52001 \div 60 \times 29 = ? \times 41$
(a) 700
(b) 650
(c) 500
(d) 550
(e) 680

Q10. $\frac{701}{52} \div \frac{11}{699} \times \frac{112}{102} = ?$
(a) 700
(b) 850
(c) 980
(d) 800
(e) 650

Q11. 16.5% of 1399.921 + 114.78% of 1211 = ?
(a) 1270
(b) 1350
(c) 1490
(d) 1530
(e) 1620

Q12. $\sqrt{1220} \times 16.06 + \sqrt{4897} = ?$
(a) 610
(b) 620
(c) 630
(d) 640
(e) 650

Q13. $18.08 \times 11.898 + 22.922 \times 14.94 = ?$
(a) 520
(b) 560
(c) 540
(d) 580
(e) 610

Q14. $\frac{5}{8}$ of $\frac{4}{9}$ of $\frac{3}{5}$ of $222 = ?$
(a) 42
(b) 43
(c) 39
(d) 37
(e) 47

Q15. $74156 - ? - 321 - 20 + 520 = 69894$

(a) 3451
(b) 4441
(c) 5401
(d) 4531
(e) 4414

Solutions

S1. Ans (d)
Sol. Let largest no. – Z
Middle No. – Y
Smallest No. – X
From I, Z = X + 20
II, X + Z = 2Y
III, Y − X = 10
∴ From all statements, we can't determine the average value

S2. Ans (a)
Sol. Let C.P. = $Rs. x$
From I, $\frac{600-x}{x} \times 100 - \frac{500-x}{x} \times 100 = 10 \Rightarrow x = Rs. 1000$
From II, $x - x \frac{110}{100} \times \frac{90}{100} = 10 \Rightarrow x = Rs. 1000$
From III, Table + chair = 25 % profit

S3. Ans (e)
Sol. From I, $y = r + 2$
II, $y + g = 3r$
III, $r : g = 3 : 4$
To determine the required probability, total number of balls can be determined by using all the statements.

S4. Ans (d)
Sol. Let distance = d km
Speed of boat in still water = x km/hr
Speed of current = y km/hr
$\therefore \frac{d}{x} = 2$

From A, d given

B, $\frac{d}{x+y}$ = given

C, y = given

S5. Ans (b)

Sol. From I, $x \times y = 2400$ sq m

II, $d = \sqrt{x^2 + y^2} = 50$ m

III, $x : y = 3 : 2$

From Any of these two statements, we can determine the value of length and breadth, then find parameter.

S6. Ans.(c)

Sol.
$$? \simeq 25 + 27$$
$$\simeq 52$$

S7. Ans.(a)

Sol. $? \approx (41)^2 + (8)^2 - (22)^2$

$\approx 1681 + 64 - 484 \approx 1261$

$\therefore Required\ Answer = 1260$

S8. Ans.(c)

Sol. $\frac{600 \times 40}{100} - 250 \approx ? - \frac{77 \times 910}{100}$

$\Rightarrow 240 - 250 \approx ? - 700$

$\Rightarrow ? = 700 + 240 - 250 \approx 690$

$\therefore$ Required answer = 690

S9. Ans.(b)

Sol. $52000 \div 60 \times 30 \approx ? \times 40$

$\Rightarrow \frac{52000}{60} \times 30 \approx ? \times 40$

$\Rightarrow 26000 \approx ? \times 40$

$\therefore ? = \frac{26000}{40} \approx 650$

$\therefore$ Required answer = 650

S10. Ans.(c)

Sol. $? = \frac{701}{52} \times \frac{699}{11} \times \frac{112}{102}$

$\approx \frac{700}{50} \times \frac{700}{11} \times \frac{110}{100} \approx 980$

$\therefore$ Required answer = 980

S11. Ans.(e)

Sol.

$\frac{16.5}{100} \times 1400 + \frac{115}{100} \times 1210 = 231 + 1391$

$= 1622 \approx 1620$

S12. Ans.(c)
Sol.
$35 \times 16 + 70 = 560 + 70 \approx 630$

S13. Ans.(b)
Sol.
$18 \times 12 + 23 \times 15$
$216 + 345 \approx 560$

S14. Ans.(d)

$$? = \frac{5}{8} \times \frac{4}{9} \times \frac{3}{5} \times 222$$
$$= 37$$
Sol.

S15. Ans.(b)
Sol.
? = 4441
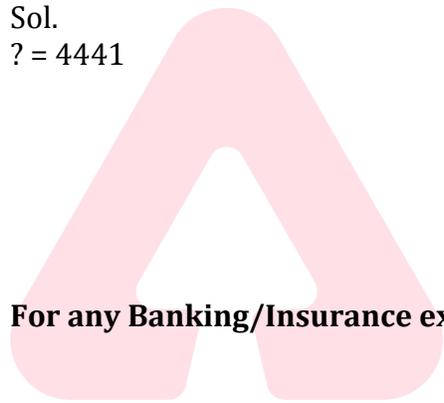
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