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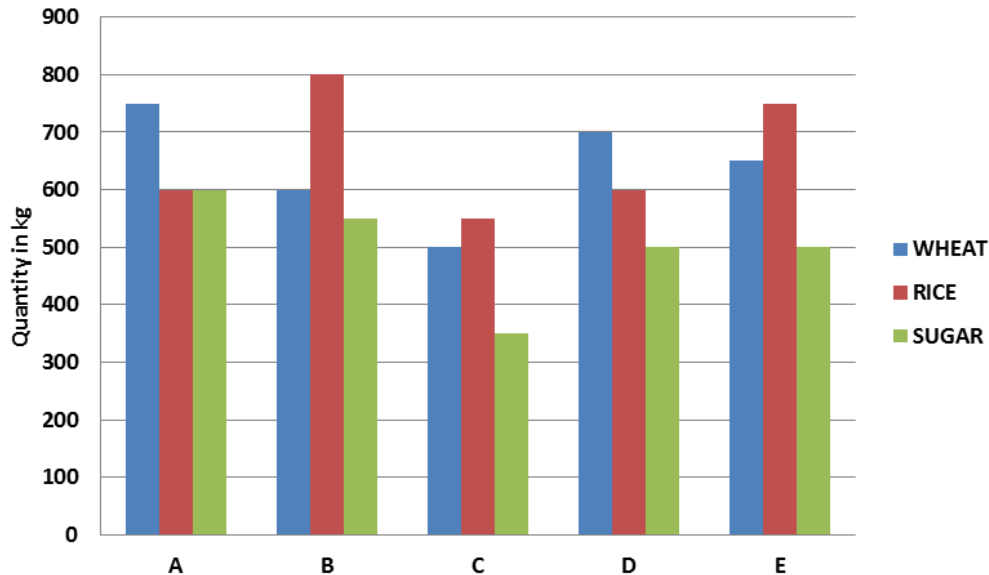
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Directions (36-40): Study the following graph and answer the question that follow
Given below is the amount of rice, wheat and sugar in (kg) sold by 5 different shopkeepers in year 2015

Q36. What is the ratio of total quantity of rice & wheat together sold by shopkeeper C to the total quantity of sugar and wheat together sold by shopkeeper E ?
(a) 11 : 12
(b) 20 :13
(c) 22 : 29
(d) 21 : 23
(e) 5 : 6

Q37. Amount of rice sold by shopkeeper A & B together is what percent more or less than the amount of wheat sold by shopkeeper C and E together?
(a) $22\frac{3}{5}\%$
(b) $29\frac{13}{17}\%$
(c) $21\frac{17}{23}\%$
(d) $19\frac{2}{7}\%$
(e) $20\frac{2}{7}\%$

Q38. Which quantity out of the three quantity sold by all the 5 shopkeepers together is maximum ?
(a) Wheat
(b) Rice
(c) Sugar
(d) Both a & b
(e) None of these

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Q39. If total quantity of wheat and rice sold by all the shopkeeper together increases by 25% and $\frac{200}{33}$% respectively in year 2016 then in 2016 what is the difference between total quantity of wheat & rice sold by all shopkeeper?

(a) 200 kg

(b) 100 kg

(c) 400 kg

(d) 100 kg

(e) 500 kg

Q40. If the selling price per Kg of wheat and rice are in the ratio 3 : 5 (in Rs) in 2015 for shopkeeper A and selling price of wheat increases by 25% next year then what quantity of wheat was sold in 2016 by A if total amount obtained in selling wheat in 2016 by A is 11250 Rs. and amount obtained in selling rice by A in 2015 is 12000 ?

(a) 750 kg

(b) 600 kg

(c) 500 kg

(d) 800 kg

(e) 350 kg

Q41. The average age of mother, father and son was 42 years at the time of the marriage of the son. After one year an infant was born in the family and after 6 yrs of the marriage of son, the average age of the family is 36 years. What was the age of the bride at the time of marriage ?

(a) 26 years

(b) 27 years

(c) 25 years

(d) 24 years

(e) None of these

Q42. Ajay invested certain amount in two different schemes A and B. Scheme A offers S.I. at 12% p.a. and scheme B offer C.I. at 10% p.a. Interest accrued on the amount invested in scheme A in 2 years was Rs. 3600 and the total amount invested was Rs. 35,000. What was the interest accrued on the amount invested in scheme B for 2 years?

(a) Rs. 4200

(b) Rs. 4400

(c) Rs. 4300

(d) Rs. 4100

(e) None of these

Q43. The total number of men, women and children working in a factory is 18. They earn Rs. 4000 in a day. If the sum of the wages of all men, all women and all children is in the ratio of 18 : 10 : 12 and if the wages of an individual man, woman and child is in the ratio 6 : 5 : 3, then how much a women earn in a day ?
(a) Rs. 500
(b) Rs. 350
(c) Rs. 275
(d) Rs. 250
(e) None of these

Q44. A 300 meters long train is travelling with the speed of 45 km/hr and it passes point A completely. At the same time, a motorbike starts from point A with the speed of 70 km/hr. When it exactly reaches the middle point of the train, the train increases its speed to 60 km/hr and motorbike reduces its speed to 65 km/hr. How much distance will the motorbike travel while passing the train completely ?
(a) 2.5 km
(b) 2.37 km
(c) 3.6 km
(d) 3.8 km
(e) None of these

Q45. The average age of a group of six children is 15 years. From the group, two children, whose ages were 3 years more and 5 years more than the average age, left. 4 new children, whose average age is 4 years more than the given average age, join the group. Find the new average age.
(a) 15 years
(b) 16 years
(c) 17 years
(d) 18 years
(e) 12 years

Directions (46-50): What approximate value should come in place of question mark (?) in the following questions?

Q46. $779.98 \times 17.02 \div 33.98 = ?$
(a) 370
(b) 380
(c) 390
(d) 400
(e) 410

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Q47. $\sqrt{12098} \times 34.98 + 150.04 = ?$

(a) 3600

(b) 3800

(c) 4000

(d) 4200

(e) 4400

Q48. $\frac{3}{11} \times \frac{9}{11} \div \frac{7}{33} + \frac{3}{5} = ?$

(a) 1.0

(b) 1.5

(c) 2.5

(d) 3.0

(e) 3.5

Q49. $133.98 \times 17.05 = (? \times 40.04) + 277.98$

(a) 20

(b) 30

(c) 40

(d) 50

(e) 60

Q50. 36.5% of $140 \div 12.6\%$ of $80 = ?$

(a) 11

(b) 9

(c) 7

(d) 5

(e) 3

Directions (51-55): Given below is the table which shows the total numbers of voters in 5 different villages, % of voters who did not vote and percentage of female out of total persons who have voted.

Villages	Total voters	% of voters who do not vote	% of females out of total persons who have voted
A	20000	12%	40%
B	18000	13%	60%
C	16000	20%	45%
D	13500	10%	30%
E	22500	8%	40%

Q51. Total people who have not voted from village A and C together is what % of total males who have voted from these village?

(a) $17\frac{2}{5}\%$

(b) $31\frac{9}{11}\%$

(c) $20\frac{2}{5}\%$

(d) $13\frac{14}{17}\%$

(e) None of these

Q52. What is the ratio of males who have voted from village D and E together to the females who have voted from village D and E together?

(a) 63 : 43

(b) 93 : 53

(c) 73 : 33

(d) 82 : 23

(e) None of these

Q53. What is the difference between number of male from village A who have voted and female from village D who have voted ?

(a) 6020

(b) 4200

(c) 6300

(d) 5585

(e) 6915

Q54. If ratio of male to female who do not vote is 5 : 3 from village C then what is the ratio of total male voters and total female voters from village C ?

(a) 113 : 87

(b) 96 : 53

(c) 83 : 43

(d) 104 : 101

(e) None of these

Q55. What is the average number of voters who have not voted from village A, C and D together ?

(a) $1526\frac{1}{3}$

(b) $1820\frac{2}{3}$

(c) $2316\frac{2}{3}$

(d) $1015\frac{3}{5}$

(e) None of these

Q56. Two jars contain equal quantities of 40% alcohol. Anju changed the concentration of the first jar to 50% by adding extra quantity of pure alcohol. Sonali changed the concentration of the second jar to 50% by replacing a certain quantity of the solution with pure alcohol. By what percentage is the quantity of alcohol added by Anju more than that replaced by Sonali ?

(a) 15%

(b) 10%

(c) 20%

(d) 40%

(e) None of these

Q57. A pen was sold for a certain sum and there was a loss of 20%. Had it been sold for Rs. 12 more, there would have been a gain of 30%. What would be the profit if the pen was sold for Rs. 4.80 more than what is was sold for ?

(a) 5%

(b) 8%

(c) 12%

(d) No profit, no loss

(e) None of these

Q58. There is 1000 liters milk in a pot. 100 liters of milk is taken out and same amount of water is poured into it. Again 200 liters of mixture is taken out and same amount of water is poured into it and finally 400 liters if mixtures is taken out and same amount of water is poured into it then what is the amount (in litres) of milk in the resulting mixture ?

(a) 425

(b) 434

(c) 432

(d) 428

(e) None of these

Q59. A, B, C are pipes attached into a cistern. A and B can fill it in 20 and 30 minutes respectively, while C can empty it in 15 minutes. If A, B and C be kept open successively for 1 minute each, how soon will the cistern be filled ?

(a) 2 hr 44 min

(b) 2 hr 40 min

(c) 2 hr 47 min

(d) 2 hr 37 min

(e) None of these

Q60. An open box is made of wood 2 cm thick. Its internal length is 86 cm, breadth is 46 cm and height is 38 cm. The cost of painting the outer surface of the box at Rs. 10 per m² (excluding outer upper edge) is
(a) Rs. 13.8
(b) Rs. 15.7
(c) Rs. 16.5
(d) Rs. 15.4
(e) None of these

Directions (61-65): What should come in place of question mark (?) in the following number series?

Q61. 4, 13, 31, 67, 139, ?
(a) 217
(b) 253
(c) 267
(d) 283
(e) 297

Q62. 3, 5, 23, 211, ?
(a) 1301
(b) 1323
(c) 3376
(d) 1343
(e) 3381

Q63. 7, 8, 16, 32, 56, 88, ?
(a) 107
(b) 118
(c) 128
(d) 134
(e) 144

Q64. 15 , 19, 23, 37, 51, 75, 99, 133, ?
(a) 167
(b) 173
(c) 181
(d) 194
(e) 201

Q65. 6, 9, 18, 45, 135, ?
(a) 337.5
(b) 472
(c) 375.5
(d) 405
(e) 472.5

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Directions (66-70): In each of these questions, two equations I and II are given. You have to solve both the equations and give answer

(a) if $x > y$
(b) if $x \geq y$
(c) if $x < y$
(d) if $x \leq y$
(e) if $x = y$ or no relation can be established between x and y

Q66. I. $x^2 - 264 = 361$ **II.** $y^3 - 878 = 453$

Q67. I. $3x^2 + 14x + 15 = 0$ **II.** $3y^2 - 13y + 14 = 0$

Q68. I. $63x - 94\sqrt{x} + 35 = 0$ **II.** $32y - 52\sqrt{y} + 21 = 0$

Q69. I. $x^2 - 7\sqrt{3}x + 35\sqrt{15} - 5\sqrt{5}x = 0$ **II.** $y^2 - 5\sqrt{5}y + 30 = 0$

Q70. I. $x^2 - 7x + 12 = 0$ **II.** $y^2 - 12y + 32 = 0$

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