Directions (1-5): 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≥y

(c) if x<y

(d) if x ≤y

(e) if x = y or No relation can be established between x and y.

Q1. (I) $x^2 = (23)^2 - 5 \times 77$

(II) $2y^2 + 51y + 324 = 0$

Q2. (I) $3x^2 - 58x + 280 = 0$

(II) $3y^2 - 67y + 374 = 0$

Q3. (I) $5x^2 = 5x + \frac{176}{5}$

(II) $25y^2 - 55y + 18 = 0$

Q4. (I) $x^2 - \frac{41}{20}x + 1 = 0$

(II) $16y^2 - 22y + 7 = 0$

Q5. (I) $2x - y = \frac{31}{15}$

(II) $3x + 5y = 20$

Q6. A playground is in the shape of a rectangle. A sum of Rs. 1000 was spent to make the ground usable at the rate of 25 paise per m². The breadth of the ground is 50 m. If the length of the ground is increased by 20 m, what will be the total expenditure, (in Rs.) at the same rate per m² ?

(a) 1250

(b) 1000

(c) 1500

(d) 2250

(e) None of the above

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Q7. Manoj lend Rs. P for three years on S.I. at the rate of 15% per annum and Rajesh lend Rs. (P + 8000) for two years on C.I. at the rate of 8% per annum. Suresh borrowed sum equal to of what Manoj and Rajesh lend, for two years on C.I. at the rate of 20% per annum. If Suresh paid interest Rs. 5352 more than, what Manoj and Rajesh got total interest on their sums together. Find total sum borrowed by Suresh?

(a) Rs. 34000

(b) Rs. 44000

(c) Rs. 32000

(d) Rs. 46000

(e) Rs. 30000

Q8. A train P, 180 meter long train passed a pole in $\frac{27}{4}$ sec and also passed two trains Q and R in 9 sec and 39 sec respectively, where train Q running in opposite direction of train P and train R is running in same direction of train P. If length of train Q and R is 240 meter and 210 meter respectively, then in what time train Q will pass train R, if both runs in opposite direction ?

(a) 35 sec

(b) $9\frac{7}{11}$ sec

(c) $12\frac{3}{11}$ sec

(d) 15 sec

(e) 55 sec

Q9. A, B and C entered into a partnership with some investment for one year. After one-year A got 2/5 profit and B and C got equal part of remaining profit. If total profit after one year is 15% instead of 10% then A got 900 Rs. more. Find the investment of B.

(a) 12000

(b) 45000

(c) 27000

(d) 18000

(e) 13500

Q10. The ratio of the speeds of a car, a jeeps and a tractor is 3 : 5 : 2. The speed of the jeep is 250 per cent the speed of the tractor, which covers 360 km/ in 12 hours. What is the average speed of car and jeep together ?

(a) 60 km/hr

(b) 75 km/hr

(c) 40 km/hr

(d) Cannot be determined

(e) None of these

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Directions (11-15): What value should come in place of (?) in the following questions?

Q11. $17\frac{2}{3} - 8\frac{1}{5} - 9\frac{3}{5} + ? = \frac{1}{3} + \frac{1}{5}$

(a) $\frac{2}{3}$

(b) $\frac{1}{5}$

(c) $\frac{3}{5}$

(d) $\frac{2}{5}$

(e) $\frac{1}{3}$

Q12. $\sqrt[3]{2197} - \sqrt{1156} + \sqrt[3]{3375} = ?$

(a) –5

(b) –6

(c) –7

(d) –8

(e) –4

Q13. 25% of 650 – 65% of 250 = ? – 5

(a) –5

(b) 0

(c) 5

(d) 10

(e) 25

Q14. 36% of 3600 + $(12)^2$ – $\sqrt{900}$ = ?

(a) 1290

(b) 1390

(c) 1410

(d) 1440

(e) 1470

Q15. 18 – 12 × 16 ÷ 24 + 5 = ?

(a) 10

(b) 15

(c) 20

(d) 8

(e) 12

Directions (16-20): Pie-chart shown below shows percentages of cars sold by six Honda dealers.

Table shows the ratio of three type of cars out of total cars sold by different dealers. Study the data carefully and answer the following questions:

Total Cars sold = 12,000
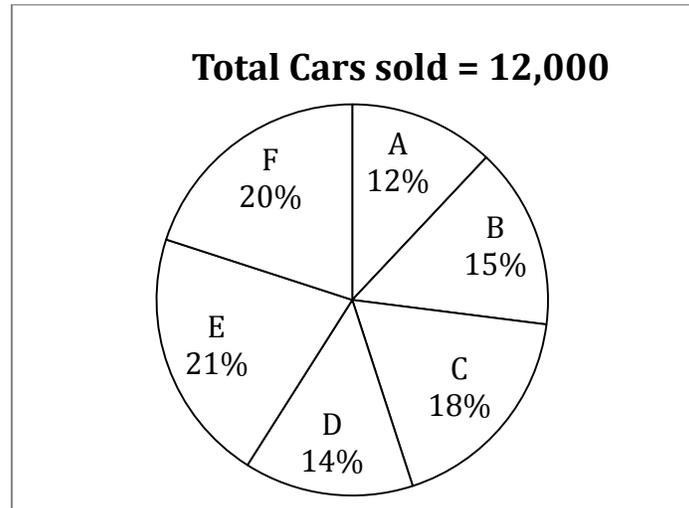
Type of Cars → Dealers ↓	Accord : Civic : City
A	4 : 2 : 3
B	3 : 4 : 3
C	7 : 4 : 4
D	6 : 8 : 7
E	3 : 6 : 5
F	5 : 4 : 6

Q16. What is the difference between the number of Accord cars sold by dealers D and E together and the number of City cars sold by dealers B and F together?
(a) 360
(b) 420
(c) 540
(d) 480
(e) None of these

Q17. The number of Accord and Civic cars sold by dealer A together is what percent of the number of Civic and City cars sold by dealer D together?
(a) 90%
(b) 80%
(c) 75%
(d) 60%
(e) 50%

Q18. What is the average number of Civic cars sold by dealers A, B, D and E together?
(a) 670
(b) 710
(c) 690
(d) 650
(e) None of these

Q19. What is the ratio of the number of Civic and City cars sold together by dealer B to that by dealer E?
(a) 11 : 7
(b) 7 : 11
(c) 5 : 8
(d) 8 : 5
(e) None of these

Q20. Out of six dealers, which dealer sold the minimum number of City cars?
(a) B
(b) C
(c) D
(d) E
(e) A

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