DI PRACTISE - 1

Direction (1-5): Study the following information carefully and answer the questions given below.
A company has 4 different departments – IT, Sales, HR and Finance. The number of female employees from IT department is 800 and the ratio of the number of male to female employees from HR department is 3: 2. The number of female employees from IT department is 80 less than the number of male employees from Finance department. The number of female employees from IT department is 160 less than the number of male employees from HR department. Ratio of the number of male to female employees from Finance department is 2: 3 and the total number of male employees from all the departments together is 800 more than of the total number of female employees from all the departments together. The ratio of the number of male to female employees from IT department is 2: 1 and the number of female employees from Sales department is 480.

1. What is the difference between the total number of employees from Finance and HR department?
   A) 400 B) 500 C) 600
   D) 700 E) None of these

2. If 60% of the male employees from IT departments are transferred to Sales department and 55% of the female employees from sales department are transferred to IT department, then what is the ratio of the total number of employees from IT and Sales department together?
   A) 67: 79 B) 69: 71 C) 71: 74
   D) 73: 75 E) None of these

3. What is average number of employees from all the departments together?
   A) 1640 B) 1820 C) 2050
   D) 2280 E) None of these

4. If 20% of the number of male employees from Finance department is resign their jobs and then 20% of the female employees transferred to other department, then what is the total employees of the finance department?
   A) 1680 B) 1730 C) 1760
   D) 1790 E) None of these

5. What is the difference between total number of male and female employees from all the departments together?
   A) 600 B) 700 C) 800
   D) 500 E) None of these

Directions (6 – 10): Study the following information carefully and answer the given questions.
Different number of persons went for a mall in 4 different days in a week. Total number of peoples went for a mall in Thursday is 600. The ratio of total number of peoples went for a mall in Tuesday, Wednesday and Thursday is 2: 3: 4. Total number of peoples went for a mall in Monday is 40 % of the total number of peoples went for mall in all the given days.

6. Find the total number of peoples went for a mall in all the given days together?
   A) 1850 B) 2250 C) 2400
   D) 2100 E) None of these

7. Total number of peoples went for a mall in Monday is approximately what percentage of total number of peoples went for a mall in Tuesday?
   A) 250 % B) 275 % C) 325 %
   D) 300 % E) 200 %

8. If the ratio of total number of male, female and children went for a mall in Wednesday and Monday is 4: 5: 6 and 9: 10: 11 respectively, then find the difference between the total number of males went for a mall in both the days to that of total number of children went for a mall in both the days?
   A) 120 B) 150 C) 175
   D) 200 E) None of these

9. Total number of peoples went for a mall in Tuesday is approximately what percentage less than the total number of peoples went for a mall in Wednesday?
   A) 25 % B) 15 % C) 35 %
   D) 45 % E) 60 %

10. If the ratio of total number of male, female and children went for a mall in Wednesday and Monday is 4: 5: 6 and 9: 10: 11 respectively, then find the ratio between the total number of female went for a mall in Wednesday to that of Monday?
    A) 3: 4 B) 1: 2 C) 2: 3
    D) 5: 6 E) None of these

Directions (11 – 15): Study the following information carefully and answer the questions given below.
Ram's age 2 years ago and Bala's age 5 years ago are in the ratio 6: 5. The sum of their ages is 95, as Ram is (A) years old and Bala is (B) years old. Ram and Bala decided to keep them young by doing swimming. Ram swims 20 km upstream and returns back where current speed is 5 kmph. Swimming in upstream takes 1 hour more than downstream. Bala swims in still water at (C) kmph which is twice that of Ram. While coming back from swimming pool, they sell their cycles at a profit of (D)% after giving a discount of 10% and the markup is 25%.
The profit earned is lent at a rate of 4% compounded annually for 2 years which amounts to 43264. The same principal is lent at 15% simple interest for 2 years. So the simple interest is (E).
After reaching home, they decided to enter into partnership. Ram invests Rs.900 for 6 months and Bala invests (F) for the whole year. At the end of one year the profit ratio of Ram and Bala is 15: 13.

11. What will come in place of A and B?
    A) 40, 35 B) 35, 40 C) 45, 50
    D) 50, 45 E) None of these

12. What will come in place of C?
    A) 60 kmph B) 15 kmph C) 90 kmph
    D) 30 kmph E) None of these

13. What will come in place of D?
A) 37.5 % B) 25% C) 16.667%
D) 12.5% E) None of these

14. What will come in place of E?
A) 24000 B) 36000 C) 10000
D) 12000 E) None of these

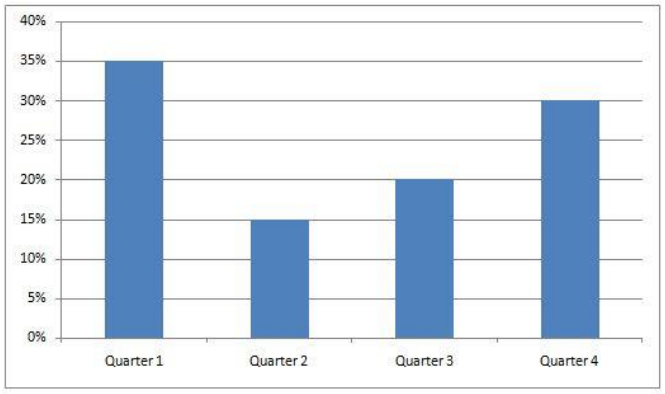
15. What will come in place of F?
A) 460 B) 490 C) 360
D) 390 E) None of these

Directions (16 – 20): Study the following information carefully and answer the given questions:

Following table shows the total number of population in 5 different cities and the percentage of male among them.

City	Total population (In lakhs)	% of male population
A	8	42 %
B	12	55 %
C	15	60 %
D	6	48 %
E	10	53 %

The bar graph shows the percentage of males born in different quarters of month in different years. (Using total male population in all the given cities together)



Note:
Quarter 1 starts from January to April.

16. Find the ratio between the total number of female population in city B to that of total number of male population in city D?
a) 12: 5 b) 22: 11 c) 13: 7
d) 15: 8 e) None of these

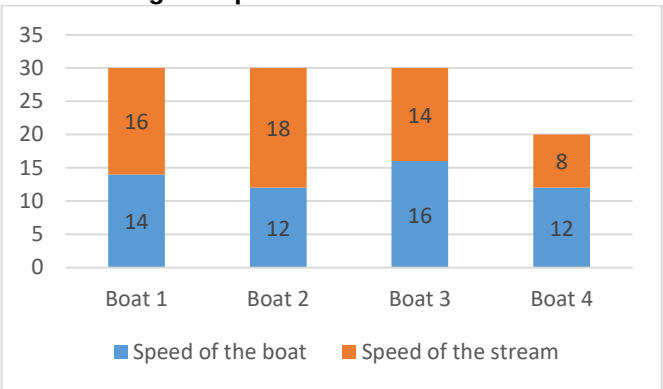
17. Find the difference between the total number of males born in quarter 1 to that of total number of female population in city E?
a) 479900 b) 425600 c) 385900
d) 327800 e) None of these

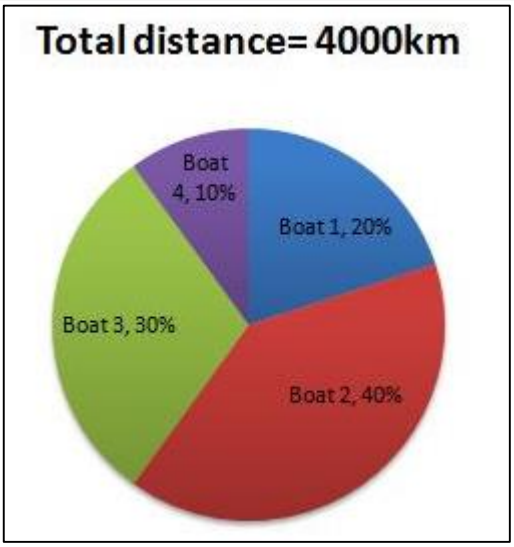
18. Find the total number of males born in Quarter 2, 3 and 4 together?
a) 1564200 b) 1687500 c) 1764100
d) 1925700 e) None of these

19. Total number of population in city A and B together is approximately what percentage of total number of female population in city C, D and E together?
a) 162 % b) 175 % c) 130 %
d) 145 % e) 100 %

20. Total number of male population in city C is approximately what percentage more/less than the total number of female population in city A?
a) 115 % less b) 95 % more
c) 80 % more d) 65 % less
e) 125 % more

Directions (21-25): Study the following graphs and answer the given questions.





21. If the speed of the Boat 1 is increased by 35% then what is the time taken by the same boat to reach 232 km if it travels in Upstream?
a) 80 hours b) 47 hours
c) 26 hours d) 46 hours
e) 56 hours

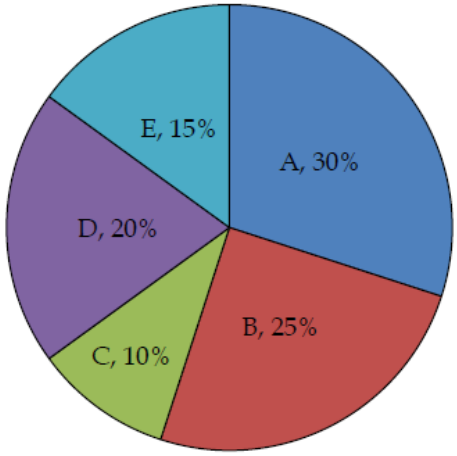
22. What is the ratio of total time taken by Boat 3 to the time taken by Boat 4 to reach their respective destination if they travel in downstream?
a) 2:1 b) 1:4 c) 8:1
d) 2:3 e) 5:1

23. What is the difference of time taken by Boat 1 to travel 750 km in downstream and time taken by Boat 2 to travel 570 km in downstream?
a) 2 hours b) 6 hours c) 7 hours
d) 9 hours e) 4 hours

24. If a person travels 5280 km using all the four boats in a Week in the same direction of stream, then by travelling in which boat takes more time to finish his journey?
a) Boat 3 b) Boat 1 c) Boat 4
d) Boat 2 e) Boat 1 and 3

25. The Boat 2 is travelling in Downstream. If the speed of the Boat 2 is increased by 25% and the speed of stream is decreased by 10%, then what is the difference between time taken by the Boat 2 to travel 960 km in original speed and increased speed?
a) 6 hours b) 2 hours c) 5 hours
d) 3 hours e) 1 hour

Directions (26 – 30): Given below is a pie chart. This pie chart shows the percentage efficiency (out of 100) of different people named A, B, C, D and E.



26. If A, D and C can finish a piece of work in 10 days. What is the ratio of the no. of days that A takes to complete the work alone to the no. of days that D takes to complete it alone?
a) 5:31 b) 1:3 c) 3:1
d) 22:59 e) None of these

27. A can finish a piece of work in 48 days less than C. The number of days in which they finish the work together is what percent of the number of days that C takes to do it alone?
a) 125% b) 75% c) 25%
d) 55% e) None of these

28. E can finish a piece of work in 45 days. If E, D and B work alternatively starting from E on day 1, D on day 2 and B on day 3 then, in how many days will they complete work working alternatively.
a) 13 days b) 34 days c) 24 days
d) 48 days e) None of these

29. E can do 6/7th of a job in 24 days. Time taken by A is what percent more or less by E?
a) 25% b) 50% c) 75%
d) 22% e) None of these

30. If C can finish a work in 8 days, what is the average of the no. of days that A, B, C, D & E take individually to finish the work?
a) 5.21 b) 6.84 c) 4.64
d) 6.22 e) None of these