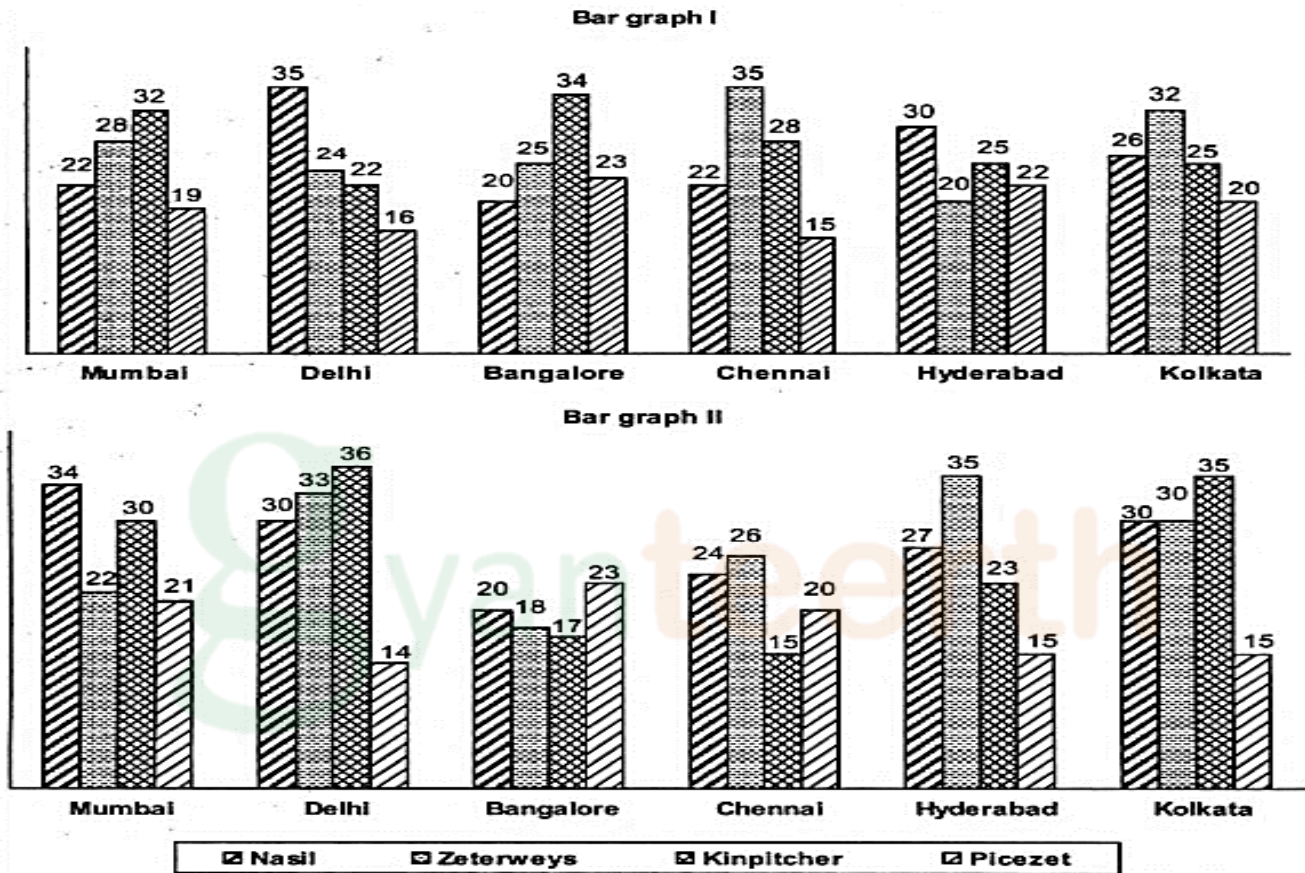


ASSESSMENT TEST

Directions for questions 1 to 5:

Answer these questions on the basis of the information given below

The following bar graphs represent the details regarding the number of flights of four airlines – Nasil, Zeterweys, Kinpitcher, Picezet, that departed from or arrived at six different cities during a month. Bar graph – I denotes the number of flights of various airlines that departed from each of the six cities and Bar graph – II denotes the number of flights of these airlines that arrived at each of the six cities.



During the given period, at least one flight of each airline departed from each of the six cities to each of the following five cities. All the following questions are based on the number of flights of these four airlines that departed from or arrived at these six cities during the given period.

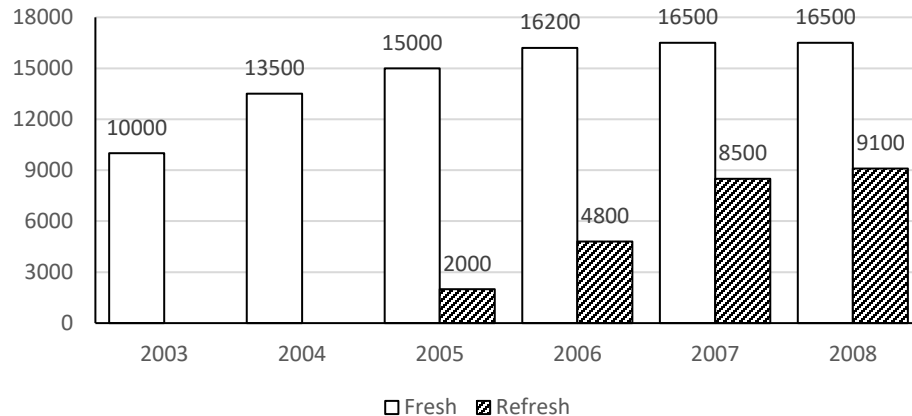
- The maximum number of flights that departed from Mumbai and arrived at Bengaluru is at most
(A) 55 (B) 57 (C) 58 (D) 59
- If there are no one-way trips between Hyderabad and Delhi and every trip is a round trip, i.e., from Hyderabad to Delhi and back to Hyderabad, then what is the maximum possible number of such trips?
(A) 66 (B) 67 (C) 68 (D) 69
- What is the maximum total number of flights that could have departed from any of these six cities to a city other than the six mentioned?
(A) 576 (B) 570 (C) 580 (D) 480
- The number of flights of Picezet airlines that departed from any one of the six cities to any of the other five cities, is at the most
(A) 15 (B) 16 (C) 17 (D) 18
- The maximum number of Nasil and Kinpitcher flights that departed from Chennai and arrived at Kolkata is
(A) 38 (B) 40 (C) 42 (D) 57

Directions for questions 6 to 9:

Answer these questions on the basis of the information given below.

Fresh and Refresh are two brands of soft drinks in a local market. Refresh is a new brand, introduced in 2005, while Fresh has been there in the market since 2001. Both these brands are available in only 1 litre bottles.

For Fresh, 20% of the bottles are disposed of after exactly two years from the date of manufacture, while the rest continue to be used. For Refresh, 10% of the bottles are disposed of after exactly one year from the date of manufacture, while the rest continue to be used. Also, it is known that 1000 bottles of Fresh were disposed of in 2004. The following bar graph shows the number of bottles of Fresh and Refresh in use since 2003, as at the end of each year.



- Note:- (1) All bottles are used right from the year in which they are manufactured and continue to be used unless they are discarded.
(2) The bottles used for both the brands are distinct.

- | | |
|---|--|
| 6. How many bottles of Refresh were manufactured in 2007?
(A) 4300 (B) 3700
(C) 4000 (D) 4200 | 8. How many bottles of Fresh were manufactured in 2006?
(A) 240 (B) 2100
(C) 3600 (D) 3800 |
| 7. Since its introduction in 2005, how many bottles of Refresh were disposed of till the end of 2009?
(A) 100 (B) 1000
(C) 900 (D) 1200 | 9. How many bottles of Fresh were disposed of in 2007?
(A) 1000 (B) 1200
(C) 1500 (D) Cannot be determined |

Directions for questions 10 to 12:

These questions are based on the following information.

Top 64 players participated in a knock out tennis tournament. This tournament has five knock out rounds before the final, i.e. first round, second round, third round, quarter finals and semifinals. In the first round, the highest seeded player (seed 1) plays the lowest seeded player (seed 64) and this match is designated as match no. 1 of the first round; the 2nd seeded player plays the 63rd seeded player and this match is designated as match no.2 of the first round, and so on. Thus, for instance match no.32 of the first round is to be played between the 32nd seeded and the 33rd seeded players. In the second round, the winner of match no.1 of the first round plays the winner of match no.32 of the first round and this match is designated as match no.1 of the second round. Similarly, the winner of match no.2 of the first round plays the winner of match no.31 of the first round and this match is designated as match no.2 of the second round. Thus, for instance, match no.16 of the second round is to be played between the winner of match no.16 of the first round and the winner of match no.17 of the first round. The same pattern is followed for later rounds as well. An upset is said to be taken place if a lower seeded player beats a higher seeded player.

10. What is the maximum possible number of upsets in the tournament?
(A) 64 (B) 63 (C) 127 (D) 32
11. If there is no upset in the tournament, with whom does seed 3 play in the quarterfinals?
(A) Seed 6 (B) Seed 2 (C) Seed 4 (D) Seed 5
12. If seed 43 reaches the third round, who among the following players could he have played in that round?
(A) Seed 52 (B) Seed 36 (C) Seed 54 (D) Seed 38

Directions for questions 13 to 16:

These questions are based on the following data.

Ten tokens, numbered 1 through 10, are distributed among five boys - Jayaraj, Kamal, Lohit, Manish and Nihar. The numbers on the tokens that Kamal gets are perfect squares. The numbers on the tokens that Manish gets are all multiples of 3. Lohit is the only person who gets exactly one token and the number on his token is equal to the sum of the numbers on Nihar's tokens. Nihar gets exactly two tokens, both of which bear even numbers and one of which bears a number which is also a multiple of 3.

13. Which of the following is the sum of the numbers on Jayaraj's tokens?
(A) 22 (B) 20 (C) 15 (D) None of these
14. Which of the following is the number on Lohit's token?
(A) 6 (B) 8 (C) 10 (D) Either (B) or (C)
15. Which of the following gives the numbers on Kamal's tokens completely?
(A) 1 and 9 (B) 4 and 9 (C) 1 and 4 (D) 1, 4 and 9
16. Which of the following gives the numbers on Manish's tokens completely?
(A) 3 and 6 (B) 3 and 9 (C) 6 and 9 (D) 3, 6 and 9

Directions for questions 17 to 21:

Answer these questions on the basis of the information given below.

The BNP Paribas open is a seven round tennis tournament played on a knockout basis i.e., in each round, in a match between two players the winner advances to the next round while the loser gets eliminated, with no match ending in a tie. Players can also advance if given a bye, which happens only in the first round. The players taking part are seeded 1, 2, 3 etc., till the last player. In the first round, the top eight seeds are given a bye, while the player seeded 9 plays the last seeded player in a match which is designated match 9 of the first round, the player seeded 10 plays the second last seed, in a match designated match 10 of the first round, and so on till match 64. In the next round, the player seeded 1 plays the winner of the match 64, the player seeded 2 plays the winner of the match 63 and so on. These are designated matches 1, 2 and so on of the second round. In the third round the winner of match 1 of the second round plays the winner of match 32 of the second round, the winner of match 2 of the second round plays the winner of match 31 of the second round and so on. This process continues in the succeeding rounds till a player emerges as the winner. A match between two players is said to result in an upset when a lower seeded player beats a higher seeded player.

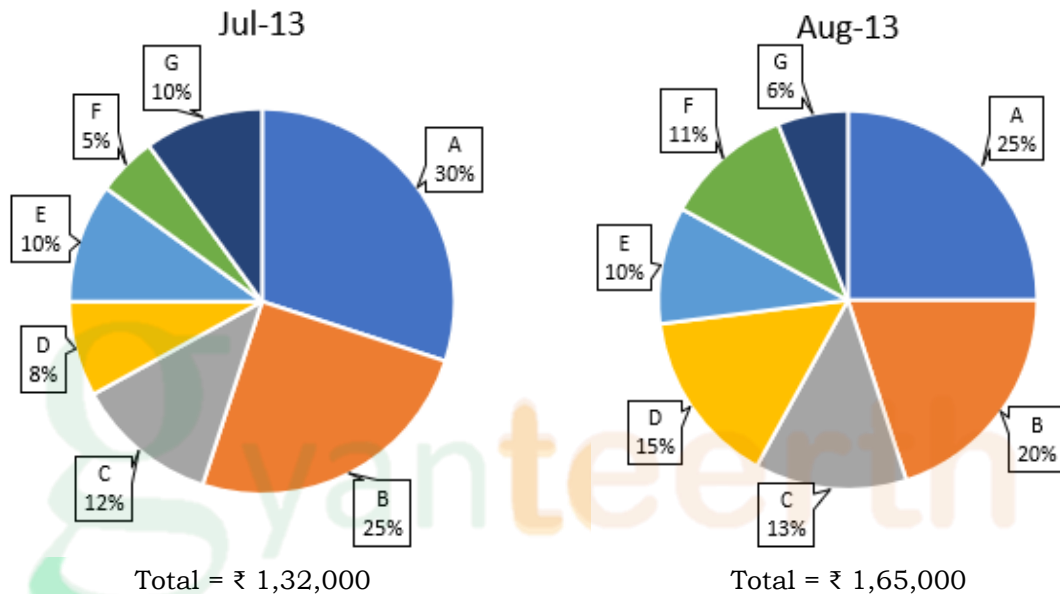
17. What is the total number of players taking part in the tournament?
(A) 128 (B) 124 (C) 120 (D) 112
18. What is the number of matches won by the winner of the tournament?
(A) 5 (B) 6 (C) 7 (D) Cannot be determined
19. If it is known that the player seeded 4 won the tournament, then which of the following seeded players could have faced him in the quarter finals?
(A) seed 69 (B) seed 37 (C) seed 21 (D) More than one of the above

20. What is the minimum number of upsets in the tournament if the player seeded 14 wins the tournament?
(A) 4 (B) 5 (C) 8 (D) None of these
21. If the player seeded 17 reaches the finals, then which of the following seeded player could have won the tournament?
(A) seed 2 (B) seed 4 (C) seed 32 (D) seed 1

Directions for questions 22 to 27:

These questions are based on the following information.

The following pie charts give the sales of cell phones of different companies in two consecutive months at Cell World.



A – Nokia B – Samsung C – Sony D – Motorola E – Micromax F – LG G – Lava

22. What is the approximate percentage increase in the sales of Motorola, from July 2013 to August, 2013?
(A) 234% (B) 134%
(C) 87.5% (D) $57\frac{1}{3}\%$
23. For how many companies did the sales increase by more than 25% in the given period?
(A) 4 (B) 5
(C) 3 (D) 2
24. The sales of Nokia in July is what percent more than the sales of Micromax in August?
(A) 240% (B) 41.66%
(C) 140% (D) None of these
25. In September, the combines sales of Nokia, Lava, Motorola and Micromax decreased by 20% while the combined sales of L.G., Sony and Samsung increased by 10% when compared to August. Find the share of L.G. and Nokia in the total sales in September.
- (A) 12.25% (B) 31.5%
(C) 34.4% (D) Cannot be determined
- Additional data for questions 26 and 27:**
The percentage break up of the sales of all these companies for September, 2013 is the same as that for July, 2013.
26. In September, 2013 if the sales of Samsung is 10% more than that in August, 2013, what is the percentage increase in the sales of L.G. from July to September, 2013?
(A) 20% (B) 5%
(C) Cannot be determined
(D) None of these
27. In September, 2013 the sales of Micromax increased by 20% over that of August, 2013. Find the percentage increase/decrease in the sales of Sony from August, 2013 to September, 2013.
(A) 15.74% (B) 13.6%
(C) 10.76% (D) Cannot be determined