**Sample Question Paper**

**Age Problem**

**1.**Rahul is 15 years elder than Rohan. If 5 years ago, Rahul was 3 times as old as Rohan, then find Rahul's present age.  
   
a. 32.5 years  
b. 27.5 years  
c. 25 years  
d. 24.9 years 

**2.**Sharad is 60 years old and Santosh is 80 years old. How many years ago was the ratio of their ages 4 : 6?   
  
a. 10 years   
b. 15 years  
c. 20 years  
d. 25 years

**3.**Father is 3 times more aged than his daughter. If after 5 years, he would be 3 times of daughter’s age, then further after 5 years, how many times he would be of his daughter’s age?  
a. 1 (½) times  
b. 2 times   
c. 2.5 times   
d. 3 times 

**Train problem**

4. A train travelling at 30km an hour took 13 ½ sec in passing a certain point. Find the length of the train.

1. 100m
2. 112.5m
3. 121.5m
4. 105m

5.How many seconds will a train 60 m in length, travelling at the rate of 42      km an hour,

take to pass another train 84 m long, proceeding in the same     direction at the rate of 30 km

an hour?

1. 43.2 seconds
2. 40.5 seconds
3. 44 seconds
4. 41 seconds

6.Find the length of a bridge which a train 130 m long, travelling at 45 km an  hour, can cross in 30 secs.

a.200m

b.215m

c.260m

d.245m

**Arithmetic reasoning**

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| --- | --- | --- |
| 7. | The total of the ages of Amar, Akbar and Anthony is 80 years. What was the total of their ages three years ago ? | |
| |  |  | | --- | --- | | **a.** | 71 years | | **b.** | 72 years | | **c.** | 74 years | | **d.** | 77 years | | |
| 8. | Two bus tickets from city A to B and three tickets from city A to C cost Rs. 77 but three tickets from city A to B and two tickets from city A to C cost Rs. 73. What are the fares for cities B and C from A ? | |
| |  |  | | --- | --- | | **a.** | Rs. 4, Rs. 23 | | **b.** | Rs. 13, Rs. 17 | | **c.** | Rs. 15, Rs. 14 | | **d.** | Rs. 17, Rs. 13 | | |
| 9. | An institute organised a fete and 1/5 of the girls and 1/8 of the boys participated in the same. What fraction of the total number of students took part in the fete ? | |
| |  |  | | --- | --- | | **a.** | 2/13 | | **b.** | 13/40 | | **c.** | Data inadequate | | **d.** | None of these | | |
| 10. | A number of friends decided to go on a picnic and planned to spend Rs. 96 on eatables. Four of them, however, did not turn up. As a consequence, the remaining ones had to contribute Rs. 4 each extra. The number of those who attended the picnic was | |
| |  |  | | --- | --- | | **a.** | 8 | | **b.** | 12 | | **c.** | 16 | | **d.** | 24 | | |
| 11. | | A, B, C, D and E play a game of cards. A says to B, "If you give me three cards, you will have as many as E has and if I give you three cards, you will have as many as D has." A and B together have 10 cards more than what D and E together have. If B has two cards more than what C has and the total number of cards be 133, how many cards does B have ? |
| |  |  | | --- | --- | | **a.** | 22 | | **b.** | 23 | | **c.** | 25 | | **d.** | 35 | |

**Direction Problems**

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| 12.. A, P, R, X, S and Z are sitting in a row. S and Z are in the centre. A and P are at the ends. R is sitting to the left of A. Who is to the right of P ? | |
| |  |  | | --- | --- | | **a.** | A | | **b.** | X | | **c.** | S | | **d.** | Z | | |
| 13. | There are 8 houses in a line and in each house only one boy lives with the conditions as given below:   1. Jack is not the neighbour Siman. 2. Harry is just next to the left of Larry. 3. There is at least one to the left of Larry. 4. Paul lives in one of the two houses in the middle. 5. Mike lives in between Paul and Larry.   If at least one lives to the right of Robert and Harry is not between Taud and Larry, then which one of the following statement is not correct ? |
| |  |  | | --- | --- | | **a.** | Robert is not at the left end. | | **b.** | Robert is in between Simon and Taud. | | **c.** | Taud is in between Paul and Jack. | | **d.** | There are three persons to the right of Paul. | |

|  |  |
| --- | --- |
| 14. | A, B, C, D and E are sitting on a bench. A is sitting next to B, C is sitting next to D, D is not sitting with E who is on the left end of the bench. C is on the second position from the right. A is to the right of B and E. A and C are sitting together. In which position A is sitting ? |
| |  |  | | --- | --- | | **a.** | Between B and D | | **b.** | Between B and C | | **c.** | Between E and D | | **d.** | Between C and E | | 15. One morning Udai and Vishal were talking to each other face to face at a crossing. If Vishal's shadow was exactly to the left of Udai, which direction was Udai facing? | | | |  |  | | --- | --- | | **a.** | East | | **b.** | West | | **c.** | North | | **d.** | South | | |  |  |  | | --- | --- | | 16. | Y is in the East of X which is in the North of Z. If P is in the South of Z, then in which direction of Y, is P? | | |  |  | | --- | --- | | **a.** | North | | **b.** | South | | **c.** | South-East | | **d.** | None of these | | | 17. | If South-East becomes North, North-East becomes West and so on. What will West become? | | |  |  | | --- | --- | | **a.** | North-East | | **b.** | North-West | | **c.** | South-East | | **d.** | South-West | | | 18. | A man walks 5 km toward south and then turns to the right. After walking 3 km he turns to the left and walks 5 km. Now in which direction is he from the starting place? | | |  |  | | --- | --- | | **a.** | West | | **b.** | South | | **c.** | North-East | | **d.** | South-West | |   Number Series   |  |  | | --- | --- | | 19. | Look at this series: 2, 1, (1/2), (1/4), ... What number should come next? | | |  |  | | --- | --- | | **a.** | (1/3) | | **b.** | (1/8) | | **c.** | (2/8) | | **d.** | (1/16) | |  |  |  | | --- | --- | | 20. | Look at this series: 7, 10, 8, 11, 9, 12, ... What number should come next? | | |  |  | | --- | --- | | **a.** | 7 | | **b.** | 10 | | **c.** | 12 | | **d.** | 13 | |  |  |  |  | | --- | --- | --- | | 21. | | Look at this series: 36, 34, 30, 28, 24, ... What number should come next? | | |  |  | | --- | --- | | **a** | 20 | | **b** | 22 | | **c** | 23 | | **d** | 26 | | | 22. | Look at this series: 22, 21, 23, 22, 24, 23, ... What number should come next? | | | |  |  | | --- | --- | | **a** | 22 | | **b** | 24 | | **C** | 25 | | **d** | 26 | | |   Analytical reasoning   |  |  | | --- | --- | | 23. | Find the number of triangles in the given figure.  https://www.indiabix.com/_files/images/non-verbal-reasoning/analytical-reasoning/16.png | | |  |  | | --- | --- | | **a** | 8 | | **b** | 10 | | **c** | 12 | | **d** | 14 | |  |  |  | | --- | --- | | 24. | Find the minimum number of straight lines required to make the given figure.  https://www.indiabix.com/_files/images/non-verbal-reasoning/analytical-reasoning/1.png | | |  |  | | --- | --- | | **a** | 16 | | **b** | 17 | | **c** | 18 | | **d** | 19 | |  |  |  | | --- | --- | | 25. | Find the number of triangles in the given figure.  https://www.indiabix.com/_files/images/non-verbal-reasoning/analytical-reasoning/17.png | | |  |  | | --- | --- | | **a** | 22 | | **b** | 24 | | **c** | 26 | | **d** | 28 | | | 26. | Find the number of triangles in the given figure.  https://www.indiabix.com/_files/images/non-verbal-reasoning/analytical-reasoning/14.png | | |  |  | | --- | --- | | **a** | 12 | | **b** | 18 | | **c** | 22 | | **d** | 26 | |  |  |  | | --- | --- | |  |  | |  |  |  |  | | --- | --- | |  |  | |  | |