

## Accenture mock-1

Q1. The average age of a man and his son is 28 years. The ratio of their ages is 3 : 1 respectively. What is the man's age?

- (a) 30 years      (b) 38 years      (c) 44 years      (d) 42 years      (e) None of these

Q2. A cyclic quadrilateral ABCD is such that  $AB = BC$ ,  $AD = DC$ , AC is perpendicular to BD and  $\angle CAD = \theta$ , then find the  $\angle ABC$ .

- (a)  $\theta$       (b)  $\theta/2$       (c)  $2\theta$       (d)  $3\theta$

Q3. If  $\tan \theta + \cot \theta = 2$ , then the value of  $\tan 2\theta + \cot 2\theta$  is

- (a) 2      (b) 1      (c)  $\sqrt{2}$       (d) 0

Q4. How many integers are there between 300 and 600 that are divisible by 9?

- (a) 33      (b) 31      (c) 28      (d) 25      (e) None of these

Q5. What will be the ratio of petrol and kerosene in the final solution formed by mixing petrol and kerosene that are present in three identical vessels in the ratio 4:1, 5:2 and 6 : 1 respectively?

- (a) 166 : 22      (b) 83 : 22      (c) 83 : 44      (d) 78 : 55      (e) None of these

Q6. The respective ratio of radii of two right circular cylinders (A & B) is 2 : 5. The respective ratio of the heights of cylinders A and B is 3 : 1. What is the respective ratio of volumes of cylinders A and B?

- (a) 12 : 25      (b) 9 : 25      (c) 9 : 20      (d) 3 : 5      (e) 12 : 35

Q7. Raja gives 30% of his salary to his mother, 40% of the remaining salary he invests in an insurance scheme and PPF in the respective ratio of 4 : 3 and the remaining he keeps in his bank account. If the difference between the amount he gives to his mother and that he invests in insurance scheme is Rs. 8400, how much is Raja's salary?

- (a) Rs. 60,000      (b) Rs. 62,000      (c) Rs. 64,000      (d) Rs. 65,000      (e) Rs. 54,000

Q8. A, B, C and D are four consecutive odd numbers and their average is 42. What is the product of B and D?

- (a) 1860      (b) 1890      (c) 1845      (d) 1677      (e) None of these

Q9. A basket contains 3 blue, 5 black and 3 red balls. If 2 balls are drawn at random, what is the probability that one is black and one is red?

- (a) 2/11                      (b) 8/11                      (c) 9/11                      (d) 3/11                      (e) None of these

Q10. A man buys a land and gives for it 20 times the annual rent Find the rate of interest he gets for his money.

- (a) 10%                      (b) 24%                      (c) 45%                      (d) 18%                      (e) 5%

Q11. 144 liters of the mixture contains milk and water in the ratio 5: 7. How much milk needs to be added to this mixture so that the new ratio is 23: 21 respectively?

- (a) 42 Liters                      (b) 32 Liters                      (c) 46 Liters                      (d) 40 Liters

Q12. Manoj can do a work in 20 days, while Chandu can do the same work in 25 days. They started the work jointly. A few days later Suresh also joined them and thus all of them completed the whole work in 10 days. All of them were paid a total of Rs.1000. What is the share of Suresh?

- (a) 100                      (b) 200                      (c) 400                      (d) 300

Q13.  $36\% \text{ of } 945 - 26\% \text{ of } 765 + 17.7 = ?$

- (a) 159                      (b) 187                      (c) 167                      (d) 143

Q14. Cost price of 80 books is equal to the selling price of 65 books. The gain or loss % is?

- (a) 23%                      (b) 27%                      (c) 32%                      (d) 42%

Q15. Nagarjuna lends Rs 30,000 to two of his friends. He gives Rs 15,000 to the first at 6% p.a. simple interest. He wants to make a profit of 10% on the whole. The simple interest rate at which he should lend the remaining sum of money to the second friend is?

- (a) 8%                      (b) 15%                      (c) 16%                      (d) 14%

Q16. The average age of a man and his son is 28 years. The ratio of their ages is 3 :1 respectively. What is the man's age?

- (a) 44                      (b) 42                      (c) 38                      (d) 30

Q17. Find the next term in the series : 15 32 60 122 240 ?

- (a) 362                      (b) 488                      (c) 364                      (d) 482

Q18. While calculating the weight of a group of men, the weight of 63 kg of one of the members was mistakenly written as 83 kg. Due to this the average of the weights increased by half kg. What is the number of men in the group?

- (a) 25                      (b) 20                      (c) 40                      (d) 60

Q19. In a group of 8 boys, 2 men aged at 21 and 23 were replaced, two new boys. Due to this the average cost of the group increased by 2 years. What is the average age of the 2 new boys?

- (a) 17                      (b) 30                      (c) 28                      (d) 23

Q20. A Boat takes a total 16 hours for traveling downstream from point A to point B and coming back to point C which is somewhere between A and B. If the speed of the Boat in Still water is 9 Km/hr and the rate

of stream is 6 Km/hr, then what is the distance between A and C?

- (a) 60 Km      (b) 90 Km      (c) 30 Km      (d) Cannot be determined

Q21. A Boat going upstream takes 8 hours 24 minutes to cover a certain distance, while it takes 5 hours to cover  $\frac{5}{7}$  of the same distance running downstream. Then what is the ratio of the speed of the boat to the speed of water current?

- (a) 11:5      (b) 11:6      (c) 11:1      (d) 6:5

Q22. A Boat takes 128 min less to travel 48 Km downstream than to travel the same distance upstream. If the speed of the stream is 3 Km/hr. Then Speed of Boat in still water is?

- (a) 12 Km/hr      (b) 15 Km/hr      (c) 6 Km/hr      (d) 9 Km/hr

Q23. A shopkeeper bought 30kg of rice at Rs.75 per kg and 20 kg of rice at the rate of Rs.70. per kg. If he mixed the two brands of rice and sold the mixture at Rs.80 per kg. Find his gain.

- (a) Rs.350      (c) Rs.550      (d) Rs.420      (d) Rs.210

Q24. Eight years ago, Pranathi's age was equal to the sum of the present ages of her one son and one daughter. Five years hence, the respective ratio between the ages of her daughter and her son will be 7:6. If Pranathi's husband is 7 years elder to her and his present age is three times the present age of their son, what is the present age of the daughter?

- (a) 19 years      (b) 27 years      (c) 15 years      (d) 23 years

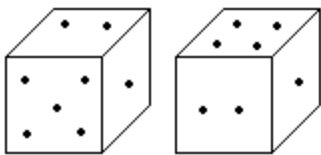
Q25. Two tailors X and Y are paid a total of Rs. 550 per week by their employer. If X is paid 120 percent of the sum paid to Y, how much is Y paid per week?

- (a) Rs. 200      (b) Rs. 250      (c) Rs. 300      (d) None of these

Q26. The population of a town increased from 1,75,000 to 2,62,500 in a decade. The average percent increase of population per year is:

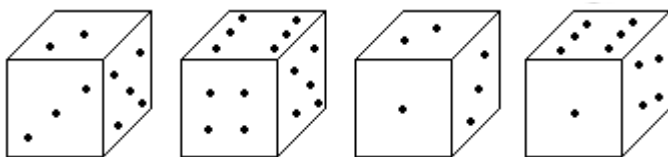
- (a) 4.37%      (b) 5%      (c) 6%      (d) 8.75%

Q27. Two positions of dice are shown below. How many points will appear on the opposite side of the face containing 5 points?



- (a) 3      (b) 1      (c) 2      (d) 4

Q28. How many points will be on the face opposite to the face which contains 2 points?



- (a) 1      (b) 5      (c) 4      (d) 6

Q29. 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

Q30. 4 women and 5 men working together can do 3 times the work done by 2 women and one man together. Calculate the work of a man to that of a woman.

- (a) 1 : 1                      (b) 2 : 1                      (c) 3 : 2                      (d) 1 : 2

Q31. A portion of \$6600 is invested at a 5% annual return, while the remainder is invested at a 3% annual return. If the annual income from the portion earning a 5% return is twice that of the other portion, what is the total income from the two investments after one year?

- (a) 200                      (b) 270                      (c) 250                      (d) 280

Q32. Find the next term in the series , 18 10 8 9 11.5 ?

- (a) 18.75                      (b) 10.75                      (c) 19.75                      (d) 14.75

Q33. Statements:

I. Some apples are guavas.

II. All apples are oranges.

III. No orange is a papaya.

IV. All papayas are guavas.

Conclusions:

I. Some papayas are apples.

II. Some oranges are papayas.

III. Some guavas are oranges.

- (a) Only conclusion III follows    (b) Either conclusion I or conclusion III follows  
(c) None follow    (d) Only conclusion I follows

Directions (34-37) : Read the following information given below and answer the questions that follow :

Six friends - Sheldon, Jack, Justin, Bruce, Peter, and Nicholas are sitting around a circular table, not

necessarily in the same order. All of them are facing the center.

I. Peter is sitting exactly opposite to Jack.

II. Justin is the only person sitting between Bruce and Peter.

III. Sheldon is sitting to the immediate left of Jack.

Q34. Who among the following are not the immediate neighbours?

(a) Bruce and Justin (b) Nicholas and Peter (c) Nicholas and Justin (d) Jack and Sheldon

Q35. Who is sitting second to the right of Peter?

(a) Peter (b) Justin (c) Jack (d) Sheldon

Q36. Who is sitting to the opposite of Sheldon?

(a) Bruce (b) Justin (c) Peter (d) Nicholas

Q37. Which of the following is false regarding the position of Jack?

(a) Jack is sitting third of the left of Nicholas. (b) Jack is sitting second to the right of Nicholas.

(c) Jack is sitting between Bruce and Sheldon. (d) Jack is sitting to the immediate left of Bruce

Directions (38-40) : Read the following information given below and answer the questions that follow :

There were six participants - M, N, O, P, Q and R in the final of coffee making competitions. The six participants belong to six different locations - Delhi, Mumbai, New York, Paris, Tokyo and London. David, the judge of this competition, rated the coffee prepared by the participants on a scale of 1 to 10 giving a unique rating to each participant.

I. R was from London.

II. Participants from New York got the highest ranking, but was not O.

III. Only two participants got ratings in even numbers.

IV. The rating of O was double the rating of Q.

V. N got the minimum rating and the rating was an even number.



VI. O got a higher rating than M.

Q38. What was the second highest rating given?

- (a) 7                      (b) 8                      (c) 9                      (d) 6

Q39. Who belongs to New York?

- (a) P                      (b) Q                      (c) Cannot be determined                      (d) M

Q40. Which of the following statements is definitely true?

- (a) P got a rating of 10    (b) M got a rating of 5    (c) O belongs to Mumbai    (d) Q belongs to Paris

### Answer key

1	D	9	D	17	D	25	B	33	A
2	C	10	B	18	C	26	B	34	C
3	A	11	B	19	B	27	D	35	D
4	A	12	A	20	D	28	D	36	B
5	B	13	A	21	C	29	B	37	A
6	A	14	A	22	A	30	A	38	A
7	A	15	D	23	A	31	A	39	A
8	C	16	B	24	D	32	D	40	B