Quant Marathon

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Test
25 questions 20 minutes

Q1. A box contains 24 marbles, some are green and others are blue. If a marble is drawn at random from the box, the probability that it is green is 2/3. The number of blue balls in the box is
(a) 13 (b) 12 (c) 16 (d) 8 (e) None of the above

Q2. The average age of a couple was 24 years. After their 1st and 2nd children (twins) were born, the average age of the family became 13.5 years. The average age of the family just after 3rd child was born was 13.2 years. The average age of the family after 4th child was born was 16 years. The current average age of the family is 19 years. What is the current age of the twin children?
(a) 14 years (b) 15 years (c) 11 years (d) 12 years (e) 13 years

Q3. A man buys Vinegar at Rs 10/litre and dilutes it with water. He sells the mixtures at the cost price and thus gains 11.11%. Find the quantity of water mixed by him in every litre of Vinegar.
(a) 0.1 L (b) 0.909 L (c) 0.125 L (d) 0.111 L (e) None of the above

Q4. There are 500 rooms in a multi-floored hotel. However, due to a change in rule, the hotel has to decrease the number of floors by 5. However, the management is able to put 5 more rooms in each floor. Over all, the number of rooms in the hotel decreases by 10%. Find the number of floors and the number of rooms/floor the hotel originally had?
(a) 10 floors 50 rooms (b) 20 floors 20 rooms
(c) 20 floors 25 rooms (d) 50 floors 10 rooms
(e) Cannot be determined

Q5. A earns 25% more than B. C earns 25% more than A. A earns 20% more than D. E earns 20% more than A. A, B, C, D, and E earn integer amounts less than Rs. 100. What is the total amount earned by all five of them put together?
(a) Rs. 300 (b) Rs. 245 (c) Rs. 305 (d) Rs. 480 (e) Data inadequate

Q6. On a certain sum of money, compound interest earned at the end of three years is equals to Rs. 1456. Compound interest at the end of two years is Rs. 880. Compute the principal invested.
(a) Rs. 2,400 (b) Rs. 2,800 (c) Rs. 2,000 (d) Rs. 1,600
(e) None of the above

7. Circumference of a circle A is 1(4/7) times perimeter of a square. Area of the square is 784 sq cm. What is the area of another circle B whose diameter is half the radius of the circle A? (a) 154 sq cm (b) 156 sq cm (c) 35.8 sq cm (d) 616 sq cm (e) None of the above

8. Floor of a square room of side 10 m is to be completed covered with square tiles, each having length 50 cm. The smallest number of tiles needed is
(a) 200 (b) 300 (c) 400 (d) 500 (e) None of these

Q9. Sameer went from Delhi to Kanpur via Agra by car. The distance from Delhi to Agra is ½ times the distance from Agra to Kanpur. The average speed from Delhi to Agra was one-third time as much as that from Agra to Kanpur. The average speed for the entire journey was 60 km/hr, What was the average speed from Agra to Kanpur.
(a) 1.15 km/hr (b) 90 km/hr (c) 120 km/hr
(d) 100 km/hr (e) None of the above

Q10. Number of soldiers recruited by Navy over the last few years are 5000, 10000, 15000, 30000, 40000, 50000. What was the average number of soldiers recruited in the navy over all

these years together? (a) 25000 (b) 24000 (c) 2400 (d) 28000
(e) None of the above

Direction (11-15): Find the odd number in the following number series?

Q11. 550, 550, 549, 544, 515, 330
(a) 549 (b) 544 (c) 515 (d) 330 (e) 550

Q12. 450, 900, 500, 800, 640, 760
(a) 900 (b) 600 (c) 800 (d) 640 (e) 760

Q13. 2, 6, 12, 21, 30, 42
(a) 6 (b) 12 (c) 21 (d) 30 (e) 42

Q14. 1134, 810, 756, 640, 540, 480
(a) 540 (b) 640 (c) 756 (d) 841 (e) 480

Q15. 1, 2, 6, 15, 31, 56, 91
(a) 6 (b) 15 (c) 31 (d) 56 (e) 91

Ques 16 – 20 Compare Quantity A and Quantity B, using additional information centered above the two quantities if such information is given, and select one of the following four answer choices:
1. Quantity A is greater than Quantity B
2. Quantity B is greater than Quantity A
3. Quantity B is greater or equal to Quantity A
4. Quantity A is greater or equal to Quantity B
5. Both are equal or the relationship cannot be determined from the information given.

16. The average of 5 numbers is 9 and the average of the last three numbers is 5.
A. Average of the first two numbers
B. Average of the last 3 numbers

17. A piece of work which could be finished in 9 days was finished 3 days earlier after 10 more men joined.
A. The total number of men employed
B. 20

18. A can do half of a piece of work in one day whereas B can do full, B can do half the work as C in one day.
A. Efficiency of A
B. Efficiency of B

19.
A. A sum of money placed at compound interest doubles itself in 4 years. Number of years will it take to amount to eight times itself?
B. Number of complete years in which a sum of money put at 25% p.a. compound interest will be more than double itself.

20. Rs 200 contained in a box consists of one rupee, 50 paise and 25 paise coins in the ratio of 3 : 4 ; 5.
A. Amount of 50 paise coins.
B Amount of 25 paise coins.

21. To find out the share of Y out of Rs 1820, which of the following statements is/are sufficient/necessary?
A. The share of X is 1.8 times the combined share of Y and Z.
B. The share of Y is 3/11 of the combined share of X and Z.
C. The share of Z is 1/6of the combined share of X and Y.
(a) Statements A and B together are sufficient
(b) Statement A and C together are sufficient
(c) Statements B and C together are sufficient
(d) Either statement B alone or statements A and C together are sufficient
(e) None of these

22. A sum of money Rs 2550 is to be distributed among Knahiya, Varun and Rajneesh. What will be the share of Varun?
A. Knhiya's share is 1.5 times Varun's share.
B. Rajneesh's share is half the share of Knahiya and Varun together.
C. The share of Knahiya is Rs 340 more than Varun.
(a) Either A and B or A and C together are sufficient
(b) Only A and B (c) Only A and C (d) All are required
(e) Even all together are not sufficient

23. To find the temperature on Monday which of the following information is sufficient?
A. The average temperature for Monday, Tuesday and Wednesday was 38° C.
B. The average temperature for Tuesday, Wednesday and Thursday was 43° C.
C. The temperature on Tuesday and Thursday was 45° C each.
(a) Only A and B are sufficient (b) Only B and C
(c) A and either B or C (d) C and either A or B
(e) All the three together are sufficient

24. What is the ratio of the ages of Ravina and Shivani?
A. 6 years ago their ages were in the ratio 3 : 4.
B. After 2 years the younger one's age will be 85% that of the older.
C. The sum of their ages is three less than twice the age of the older.
(a) Only A and C (b) Any two of them (c) Only A and B
(d) All together are required (e) Any one of them is required

25. The ratio between the present ages of the son and his father is 1 : 3. Find the present age of the father.
A. Difference between the present ages of the mother and her son is 22 years.
B. Difference between the present ages of the father and his son is 26 years.
C. The present age of mother is 4 years less than thrice the present age of her son.
(a) Only A and C together (b) Either B alone or A and C
(c) Any two of them (d) All statements are required
(e) Question can't be answered even after using all