

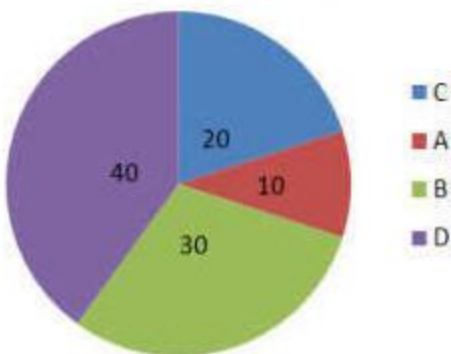


(Papers) RRB Group D : Exam Paper & Answer Key
Date: 01 Oct 2018 Shift-3 (Mathematics)

Q1. Diksha obtained 58% marks in an exam later the maximum marks was 450. She obtained marks.

- a. 290
- b. 276
- c. 261
- d. 275.5

Q2. The data shows the information on the number of children vaccinated in the year 2016 in different cities:



If the total number of children vaccinated in the year 2016 is 1,20,000, then how many kids from city 'B' were vaccinated?

- a. 24,000
- b. 48,000
- c. 12,000
- d. 36,000

Q3. Sindhu can cover a distance of $6\frac{2}{3}$ km in $3\frac{1}{4}$ hours on foot. How many km per hour does she walk?

- a. 4 km
- b. $\frac{2}{3}$ km
- c. $\frac{8}{3}$ km
- d. $1\frac{1}{3}$ km

Q4. If the simple interest on a certain sum for 1.5 years at 8% p.a. is Rs. 360. Find the compound interest on the same sum for the same rate of interest but double the time?

- a. Rs. 778
- b. Rs. 778.13
- c. Rs. 779
- d. Rs. 779.13

Q5. Rathin & Bratin together can complete a piece of work in 12 days. They start the work together but Rathin had to leave 5 days before the work got over. As a result it took a total of 15 days to complete the work. How many days would it have taken Bratin to complete the work by himself?

- a. 20
- b. 24
- c. 30
- d. 28

Q6. Find the square root of the perfect square made by multiplying 4050 with a least positive integer.

- a. 80
- b. 90
- c. 85
- d. 95

Q7. A person borrowed Rs. 32,000 at a yearly 9% simple interest and deposited the same amount in a bank at a yearly compound interest of 10%. What is the gain in rupees at the end of 3 years?

- a. Rs. 926
- b. Rs. 1,940
- c. Rs. 2,904
- d. Rs. 1,952

Q8. Persons A, B and C can complete a task together in 81 days. A and B can complete the same task together in 97.2 days. B and C can complete the same task together in 162 days. In how many days can B alone complete the task?

- a. 243
- b. 225
- c. 261
- d. 234

Q9. If the vulgar fraction of 0.41 is given by $999\dots\dots 9^{41}$ then find the value of n?

- a. 4
- b. 3
- c. 2
- d. 1

Q10. Bratin is now 18 years old, whereas his cousin is 7 years old. After how many years will Bratin's age be 1.5 times that of his cousin?

- a. 15
- b. 16

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- c. 13
- d. 14

Q11. A fraction when added to $17/3$ gives 4. what is the said fraction?

- a. $1/-1$
- b. $-5/2$
- c. $9/2$
- d. $2/3$

Q12. Let α, β be the root of $ax^2 + bx + c = 0$; γ, δ be the root of $px^2 + qx + r = 0$ & the respective discriminants of these equations. If, $\alpha, \beta, \gamma, \delta$ are in A.P. Then find the value of **D1:D2**

- a. A^2/p^2
- b. A^2/b^2
- c. B^2/q^2
- d. C^2/r^2

Q13. In triangle ABC, $AD \perp BC$, and AO is the bisector of $\angle BAC$. If $\angle ABC = 65^\circ$ and $\angle ACB = 231/2^\circ$, then $\angle DAO$ is(in degrees)

- a. $201/4^\circ$
- b. $201/5^\circ$
- c. $201/2^\circ$
- d. $203/4^\circ$

Q14. In a class there were 18 boys and some girls. In a test the mean score obtained by the boys was 12 while that obtained by the girls was 14. if the overall average was 13.1, what was the total number of students in the class?

- a. 38
- b. 44
- c. 42
- d. 40

Q15. Anya and Manya are standing facing each other. Anya is facing North-West. Which direction is Manya facing with respect to Anya?

- a. South-West
- b. North-East
- c. South-East
- d. North-West

Q16. A person walks $\frac{2}{5}$ TH of the total distance and covers one-third of the remaining distance by bus. What is the fraction of the remaining distance to be covered?

- a. $\frac{3}{5}$
- b. $\frac{2}{5}$
- c. $\frac{7}{15}$
- d. $\frac{1}{5}$

Q17. A girl saw a clock when it was 3 am. The clock loses 16 minutes per day. What will be the actual time when she sees the 0 clock on the 4th day at 8 pm?

- a. 9:15 pm
- b. 9:00 pm
- c. 8:30 pm
- d. 9:30 pm

Q18. If $10\sec^2x - 9\tan^2x = 13$ and $0^\circ \leq x < 90^\circ$, then $x =$

.....

- a. 30°
- b. 45°
- c. 60°
- d. 90°

Q19. Which of the fractions given below is not equal to $\frac{5}{9}$?

- a. $\frac{105}{198}$
- b. $\frac{80}{144}$



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- c. 40/72
- d. 25/45

Q20. 20 men can finish a certain work in 10 days, where as it takes 12 women to finish it in 10 days. If 15 men and 6 women undertake to complete the work, how many days will they take to complete it?

- a. 8 days
- b. 10 days
- c. 6 days
- d. 4 days

Q21. Fill the missing number for the series from the given options:

8, 11, 16, 23, 32, ?

- a. 40
- b. 43
- c. 46
- d. 42

Q22. If $x = a(\sin\theta + \cos\theta)$ and $y = b(\sin\theta - \cos\theta)$ then $(x^2/a^2) + (y^2/b^2) = ?$

- a. 3
- b. 1
- c. 4
- d. 2

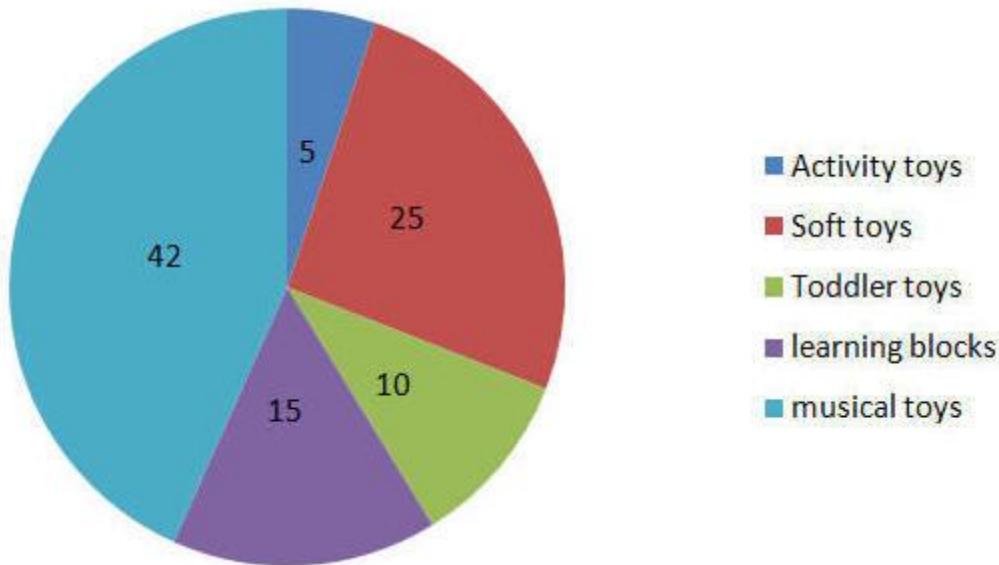
Q23. €156 was divided between two people in the ratio 13 : 21. The one who got the larger share received €.....

- a. 782
- b. 714
- c. 680
- d. 748

Q24. Divide 1,380 among A, B and C, so that A gets 5 times of C and 3 times of B.

- a. A = 980 ; B = 300 ; C = 100
- b. A = 880 ; B = 200 ; C = 300
- c. A = 900 ; B = 300 ; C = 180
- d. A = 800 ; B = 300 ; C = 280

Q25. The following pie chart shows information on sales of a toy making company "XYZ" for 2017-18 financial Year



**The total revenue made by sales of the toys is Rs. 38,72,000/-
Which type of toys made least revenue for the company?**

- a. Musical toys
- b. Activity toys
- c. Learning blocks
- d. Soft toys

Answer:-

- 1. (c) 2. (d) 3. (c) 4. (d) 5. (c) 6. (b) 7. (d) 8. (a) 9. (c) 10. (a)
11. (b) 12. (a) 13. (d) 14. (d) 15. (c) 16. (b) 17. (b) 18. (c) 19.
(a) 20. (a) 21. (b) 22. (d) 23. (b) 24. (b) 25. (b)**



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