Simplification

Q1. A car has 4 tyres and 1 spare tyre. Each tyre can travel a maximum distance of 20000 km before wearing off. What is the maximum distance the car can travel before you are forced to buy a new tyre? You are allowed to change tyres (using the spare tyre) an unlimited number of times.

(a) 20000 (b) 25000 (c) 40000 (d) 100000

Q2. You have 15 Rs with you. You go to a shop and shopkeeper tells you price as 1 Rs per chocolate. He also tells you that you can get a chocolate in return of 3 wrappers. How many maximum chocolates you can eat?

(a) 20 (b) 21 (c) 22 (d) 25

Q3. A certain number of tennis balls were purchased for 450. Five more balls could have been purchased for the same amount if each ball was cheaper by 15. Find the number of balls purchased.

(a) 10 (b) 15 (c) 20 (d) 25

Q4. The taxi charges in a city comprise of a fixed charge together with the charge for the distance covered. For a journey of 10 km the charge paid is Rs 75 and for a journey of 15 km the charge paid is Rs 110. What will a person have to pay for travelling a distance of 25 km?

(a) Rs. 236 (b) Rs. 240 (c) Rs. 248 (d) None of these

Q5. A number of friends decided to go on a picnic and planned to spend Rs 108 on eatables. Three of them however did not turn up. As a consequence each one of the remaining had to contribute Rs 3 extra. The number of them who attended the picnic was :

(a) 6 (b) 9 (c) 12 (d) 15

Q6. A total of 324 coins of 20 paise and 25 paise make a sum of Rs. 71, then number of 20 paise coins is :

(a) 124 (b) 140 (c) 200 (d) 210

Q7. One children's day sweets were to be equally distributed among 175 students in a school. Actually on that day 35 children were absent and therefore each child got 4 sweet extra. How many sweets were available in all for distribution?

(a) 2672 (b) 2675 (c) 2750 (d) 2800

Q8. A worker may claim ₹1.5 for each km which he travels by taxi and 50 paise for each km he drives his own car. If in one week he claimed ₹ 50 for travelling 80 km, how many kms did he travel by taxi?

(a)20 km (b)14 km (c)12 km (d)10 km

Q9. In an examination, a student scores 4 marks for every correct answer and loses one mark for every wrong answer. If he answers 60 questions in all and gets 130 marks, find the number of questions he answered correctly.

(a) 38 (b) 40 (c) 45 (d) 60

Q10. Rahul owes Rs X and gives a Rs 50 note in payment. He receives the following change: 3X fifty-paise coins, 14 ten-paise coins and 4X five-paise coins. X is equal to:

(a) 12 (b) 16 (c) 18 (d) 22

Q11. David gets on the elevator at the 11th floor of a building and rides up at the rate of 57 floors per minute. At the same time, Albert gets on an elevator at the 51st floor of the same building and rides down at the rate of 63 floors per minute. If they continue travelling at these rates, then at which floor will their paths cross?

(a) 19th (b) 28th (c) 30th (d) 37th

Q12. From a number of apples, a man sells half the number of existing apples plus 1 to the first customer, sells 1/3rd of the remaining apples plus 1 to the second customer and 1/5th of the remaining apples plus 1 to the third customer. He then finds that he has 3 apples left. How many apples did he have originally?

(a) 15 (b) 18 (c) 20 (d) 25

Q13. The charges of a hired car are rupees 4 per km for the first 60 km, rupees 5 per km for the next 60 km and rupees 8 for every 5 km for further journey. If the balance amount left over with Rohit is one-fourth of what he paid towards the charges of the hired car for travelling 320 km, how much money did he have initially with him?

(a) Rs. 1075 (b) Rs. 1255 (c) Rs. 1540 (d) None of these

Q14. A fires 5 shots to B's 3 but A kills only once in 3 shots while B kills once in 2 shots. When B has missed 27 times, A has killed

(a) 30 birds (b) 60 birds (c) 72 birds (d) 90 birds

Q15. At an international Dinner, 1/5 of the people attending were French men. If the number of French women at the dinner was 2/3 greater than the number of French Men, and there were no other French people at the dinner, then what fraction of the people at the dinner were not French?

(a) 1/5 (b) 2/5 (c) 2/3 (d) 7/15

Q16. 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

Q17. The fluid contained in a bucket can fill four large bottles or seven small bottles. A full large bottle is used to fill an empty small bottle. What fraction of the fluid is left over in the large bottle when the small one is full?

(a) 2/7 (b) 3/7 (c) 4/7 (d) 57

Q18. Three bottles of equal capacity contain mixture of milk and water in ratio 2:3, 3:5 and 4:5 respectively. These three bottles are emptied into a large bottle. What is the ratio of milk and water respectively in the large bottle?

(a) 439:1080 (b) 439:641 (c) 439:360 (d) 439:79

Q19. A container of milk was 4/5 full. When 12 bottles of milk were taken out and 8 bottles of milk were poured into it, was 3/4 full. How many bottles of milk can the container contain?

(a) 80 (b) 40 (c) 90 (d) 30

Q20. The marks scored in an examination are converted from 50 to 10 for the purpose of internal assessment. The highest marks were 47 and the lowest were 14. The difference between the maximum and the minimum interest assessment scores is

(a) 3.3 (b) 4.8 (c) 6.6 (d) 7.4

Answer key

1	B	5	B	9	A	13	A	17	B
2	C	6	C	10	C	14	A	18	B
3	A	7	D	11	C	15	D	19	A
4	D	8	D	12	C	16	C	20	c