QUESTIONS for PRACTICE

1. The least number which when divided by 12, 15, 20 and 24 leave 8 as remainder in each case

   a) 504 b) 536 c) 544 d) 548

2. Three numbers are in ratio 3:4:5 and their LCM is 2400. Then the HCF is-

a) 40 b) 80 c) 120 d) 200

3 .Find the last digit of 123457^34

(a) 9 b) 7(c) 3(d) 1

4.What is the remainder when 1044 * 1047 * 1050 * 1053 is divided by 33?

(a)3 b) 27 (c) 30 (d) 21

5. A number when divided by 837 leaves a remainder of 79. What will be the remainder when the same number is divided by 31?

a) 11 b) 13 c) 15 d) 17

6. Two numbers are in the ratio of 15: 11. If their H.C.F. is 13, then the numbers are

(a) 75, 55 (b) 15, 11 (c) 105, 77 (d) 195, 143

7. Of the four numbers, the first is twice the second, the second is one-third of the third and the third is 5 times the fourth. The average of the numbers is 24.75. The largest of these numbers is:

A.45 B.25 C.30 D.45

8. A batsman in his 17th innings makes a score of 85, and thereby increases his average by 3. What is his average after 17 innings?

A.30 B.37 C.40 D.45

9. Find the average of first 60 natural numbers

A)30.5 B)31 C)31.5 D)32

10. The average salary of 3 workers is 95 Rs. per week. If one earns Rs.115 and second earns Rs.65 how much is the salary of the 3rd worker.

(a) 75 (b) 85 (c) 95 (d) 105

11. A student gets an aggregate of 60% marks in five subjects. The marks are in the ratio 10 : 9 : 8 : 7 : 6. If the passing marks are 60% of the maximum marks and each subjects has the same maximum marks, in how many subjects did he pass the exam?

a.2 b.3 c.4 d.5

12. If the numerator of the fraction decreases by 30% and the denominator increases by 40%, the fraction becomes 22/31. What was the original fraction?

   a.   11/31   b.   38/29   c.   33/21   d.   44/31

13. In a test A got 15% of the marks and failed by 7 marks whereas B got 28% and got 32 marks more than the pass mark. What was the pass mark?

   a.   45 b. 52 c. 84 d. 300

14. The length and breath of a rectangle are increased by 20% and 30%.The area of the resulting rectangle exceeds the area of the original rectangle?

a.50% b.65% c.56% d.156%

15. The price of a fan is decreased by 20%.as a result of wh ich the sale increased by 40%.What will be the effect on the total revenue of the shop?

a.12% b.10% c.20% d.30%

16. If Harish height is 30% less than that of Yokesh , How much percentage Yokesh height is more than that of Harish ?

A)42.58% B)42.8% C)42.83% D)42.85%

17. A bag contains 5p, 10p and Rs20p coins in the ratio of 1:2:4 respectively. If the total money in the bag is Rs.84/-. Find the number of 10p coins in that bag?

A. 160 coins B. 20 coinsC. 128 coins   D. None of these

18. If Rs.800 is divided among A, B and C in such a way that AÃ¢â‚¬â„¢s share 4 times more than B, BÃ¢â‚¬â„¢s share is 3 times more than C. The CÃ¢â‚¬â„¢s share is?

A. Rs.650 B. Rs.600 C. Rs.150 D. Rs.50

19. If two numbers are in the ratio 5:3. If 10 is reduced to both of the numbers then the ratio becomes 2:1 then find the smallest number?

A. 10   B. 20 C. 30 D. 40

20. A, B and C enter into a partnership and their shares are in ratio 1/2 : 1/3 : 1/4, after 2 months, A withdraws half of his capital and after 12 months, a profit of Rs 1050 is divided among them. What is B's share ?

A.Rs.420 B.Rs. 300 C.Rs.400 D.Rs.350

21. A started a business with Rs. 21,000 and is joined afterwars by B with Rs. 36,000. After how many months did B join if the profits at the end of the year are divided equally?

A.8 months B.2 months C.5 months D.7 months

22. A, B and C rent a land. A puts 10 tractors for 7 months, B puts 12 tractors for 5 months and C puts 15 tractors for 3 months . If the rent of the land is Rs. 175000, how much must C pay as his share of rent?

A.45000 B.50000 C.57000 D.64000

23. P and Q invest in a business in the ratio 3 : 2. If 5% of the total profit goes to charity and P's share is Rs. 855, the total profit is:

A.Rs. 1435

B.Rs. 1500

C.Rs. 1538

D.Rs. 1580

24. 25% loss on selling price is what percentage loss on cost price?

a.20%

b.25%

c.33.33%

d.50%

25. I bought 6 candies for a rupee and sold 5 candies for Re 1. What is the profit or loss %?

a) 16.66 % gain b)   20 % loss c)   16.66 % loss d) 20 % gain

26. If x:y = 4:7, the value of $(x^2 + y^2)/(x^2 - y^2)$ = ?

A)-33/65 B) 65/33 C) 33/65 D) -65/33

26. Jagdeep bought a refrigerator with 20% discount on the labeled price. Had he bought at it with 30% discount, he would have saved Rs. 500 more. At what price did he buy the refrigerator?

A. Rs 5000 B. Rs 10,000 C. Rs 12,500 D. Rs 15,000

27. A dealer sold a Radio at a loss of 2.5%. Had he sold it for Rs. 100 more, he would have gained 7.5%. To gain 12.5% he should sell it for :

A. Rs 2200 B. Rs 1000 C. Rs 1100 D. Rs 1125

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29. A mixture contains milk and water in the ratio 5:2. On adding 10 liters of water, the ratio of milk to water becomes 5:3. The quantity of milk in the original mixture is?

A. 70   B. 50 C. 30 D. 40

30. How many kilograms of sugar costing Rs/.9 per kg must be mixed with 27kg of sugar costing Rs.7 per kg so that there may ba gain of 10% by selling the mixture at Rs.9.24 per kg ?

A. 55 Kg B. 63 Kg C. 26 Kg D. 45 Kg

31. A and B are 2 alloys of gold and copper in the ratio 6:3 and 4:7.Equal quantities of these alloy mixed to form a new alloy.The ratio of gold and copper in the new alloy is

A)20:21 B)21:20 C)24:23 D)17:16

32. A merchant has 2500 kg of rice,part of which he sells at 10% profit and the rest at 16% Profit .He gains 12% overall.The quantity sold at 16% profit is

A)833 B)830 C)830.33 D)833.33

33. How many Kg of sugar costing Rs. 10kg must be mixed with 36Kg of sugar costing Rs.9 per Kg ,so that there may be gain of 11% by selling the mixture of Rs.10.30 per Kg?

A)10 B)11 C)12 D)14

34. If in a two digit number the units place is halved and tens place is doubled, then the difference between the numbers is 37. If the digit in units place is 2 more than tens place, then find the number.

a. 24   b .46 c .2 d. none

35. When A is 4 yrs old, B is thrice A. How old will B be when A is 14 yrs old?

a.26 b. 28 c. 24 d. none

36. If the digits of my present age are reversed then i get the age of my son. If 1 year ago my age was twice as that of my son. Find my present age.

a. 27 b. 45 c. 34 d. 73

37. If three eighth of a number is 1257, the one fourth of the number will be:

(a) 559 (b) 670 (c) 838 (d) 926

38. If the total of the ages of P, Q and R be 27, P is two years older than Q, who is twice as old as R. Then how old is Q?

(a) 5   (b) 9 (c) 10 (d) 11

39. Today, the age of a father is thrice the age of his son. After 5 years the age of father will be 2.5 times the age of his son. What is the age of the son today?

(a) 20 years (b) 15 years (c) 1 8 years (d) 22 years

40. A computer printer produced 176,400 lines in a given day and works for seven hours a day, then how many lines did it print per minute?

a.100 b.120 c.240 d.420