TCS Aptitude Questions 2018-2019

1. Express a speed of 36 kmph in meters per second?

A. 10 mps B. 12 mps C. 14 mps D. 17 mps

Answer: Option A

Explanation:

36 * 5/18 = 10 mps

2. Express 25 mps in kmph?

A. 15 kmph B. 99 kmph C. 90 kmph D. None

Answer: Option C

Explanation:

25 * 18/5 = 90 kmph

3. The speed of a train is 90 kmph. What is the distance covered by it in 10 minutes?

A. 15 kmph B. 12 kmph C. 10 kmph D. 5 kmph

Answer: Option A

Explanation:

90 * 10/60 = 15 kmph

4. A car covers a distance of 624 km in 6 ½ hours. Find its speed?

A. 104 kmph B. 140 kmph C. 104 mph D. 10.4 kmph

Answer: Option A

Explanation:

624/6 = 104 kmph

6. A and B can do a piece of work in 12 days and 16 days respectively. Both work for 3 days and then A goes away. Find how long will B take to complete the remaining work?

A. 15 days B. 12 days C. 10 days D. 9 days

Answer: Option D

Explanation:

3/12 + (3 + x)/16 = 1

x = 9 days

7. A and B can do a piece of work in 3 days, B and C in 4 days, C and A in 6 days. How long will C take to do it?

A. 18 days B. 20 days C. 24 days D. 30 days

Answer: Option C

Explanation:

2c = ¼ + 1/6 – 1/3 = 1/12

c = 1/24 => 24 days

8. A can do a piece of work in 10 days. He works at it for 4 days and then B finishes it in 9 days. In how many days can A and B together finish the work?

A. 6 days B. 8 days C. 8 ½ days D. 7 ½ days

Answer: Option A

Explanation:

4/10 + 9/x = 1 => x = 15

1/10 + 1/15 = 1/6 => 6 days

9. A can do a piece of work in 40 days; B can do the same in 30 days. A started alone but left the work after 10 days, then B worked at it for 10 days. C finished the remaining work in 10 days. C alone can do the whole work in?

A. 24 days B. 30 days C. 44 days D. 17 1/2 days

Answer: Option A

Explanation:

10/40 + 10/30 + 10/x = 1

x = 24 days

10. A work which could be finished in 9 days was finished 3 days earlier after 10 more men joined. The number of men employed was?

A. 18 B. 20 C. 22 D. 24

Answer: Option B

Explanation:

x ------- 9

(x + 10) ---- 6

x * 9 = (x + 10)6

x = 20

11. A and B can do a piece of work in 7 days. With the help of C they finish the work in 5 days. C alone can do that piece of work in?

A. 1 day B. 10 days C. 30 days D. 32 days

Answer: Option C

Explanation:

C = 1/5 – 1/6 = 1/30 => 30 days

12. Ravi can do a piece of work in 30 days while Prakash can do it in 40 days. In how many days will they finish it together?

A. 17 1/7 days B. 27 1/7 days C. 23 2/7 days D. 16 4/11 days

Answer: Option A

Explanation:

1/30 + 1/40 = 7/120

120/7 = 17 1/7 days

13. Anil can do a work in 15 days while Sunil can do it in 25 days. How long will they take if both work together?

A. 3 4/9 days B. 8 4/9 days C. 9 3/8 days D. 6 3/8 days

Answer: Option C

Explanation:

1/15 + 1/25 = 8/75

75/8 = 9 3/8 days

14. A can do a job in 18 days and B can do it in 30 days. A and B working together will finish twice the amount of work in ------- days?

A. 21 ½ days B. 22 ½ days C. 23 ½ days D. 12 ½ days

Answer: Option B

Explanation:

1/18 + 1/30 = 8/90 = 4/45

45/4 = 11 ¼ *2 = 22 ½ days

15. A can do a piece of work in 10 days and B can do it in 15 days and C can do it 20 days. They started the work together and A leaves after 2 days and B leaves after 4 days from the beginning. How long will work lost?

A. 8 2/3 days B. 9 2/3 days C. 10 2/3 days D. 10 days

Answer: Option C

Explanation:

2/10 + 4/15 + x/20 = 1

x = 32/3 = 10 2/3

16. Three persons invested Rs.9000 in a joint business. The second person invested Rs.1000 more than the first and the third Rs.1000 more than second. After two years, they gained Rs.5400. How much third person will get?

A. Rs.2400 B. Rs.3600 C. Rs.2850 D. Rs.2000

Answer: Option A

Explanation:

First persons investment = x

Second persons investment = x + 1000

Third persons investments = x + 2000

x + x + 1000 + x + 2000 = 9000

3x = 6000

x = 2000

Ratio = 2000 : 3000 : 4000

2:3:4

4/9 * 54000 = 2400

17. A, B and C enter into partnership. A invests some money at the beginning, B invests double the amount after 6 months, and C invests thrice the amount after 8 months. If the annual gain be Rs.18000. A's share is?

A. Rs.7500 B. Rs.7200 C. Rs.6000 D. Rs.5750

Answer: Option C

Explanation:

x* 12 : 2x* 6: 3x* 4

1:1:1

1/3 * 18000 = 6000

18. A and B rent a pasture for 10 months. A put in 80 cows for 7 months. How many can B put in for the remaining 3 months, if he pays half as much again as A?

A. 120 B. 180 C. 200 D. 280

Answer: Option D

Explanation:

80* 7: x* 3 = 1:1 1/2

560: 3x = 2: 3

x = 280

19. A and B put in Rs.300 and Rs.400 respectively into a business. A reinvests into the business his share of the first year's profit of Rs.210 where as B does not. In what ratio should they divide the second year's profit?

A. 39:40 B. 40:39 C. 3:4 D. 4:3

Answer: Option A

Explanation:

3: 4

A = 3/7*210 = 90

390: 400

39:40

20. A and B invests Rs.3000 and Rs.4000 respectively in a business. If A doubles his capital after 6 months. In what ratio should A and B divide that year's profit?

A. 9:10 B. 9:8 C. 3:4 D. 39:49

Answer: Option B

Explanation:

(3*6 + 6*6): (4*12)

54:48 => 9:8

21. A man purchased 3 blankets @ Rs.100 each, 5 blankets @ Rs.150 each and two blankets at a certain rate which is now slipped off from his memory. But he

remembers that the average price of the blankets was Rs.150. Find the unknown rate of two blankets?

A. Rs.150 B. Rs.225 C. Rs.250 D. None

Answer: Option D

Explanation:

10 * 150 = 1500

3 * 100 + 5 * 150 = 1050

1500 – 1050 = 450

22. The average temperature for Monday, Tuesday, Wednesday and Thursday was 48 degrees and for Tuesday, Wednesday, Thursday and Friday was 46 degrees. If the temperature on Monday was 42 degrees. Find the temperature on Friday?

A. 40 degrees B. 38 degrees C. 36 degrees D. 34 degrees

Answer: Option D

Explanation:

M + Tu + W + Th = 4 * 48 = 192

Tu + W + Th + F = 4 * 46 = 184

M = 42

Tu + W + Th = 192 -42 = 150

F = 184 – 150 = 34

23. The average age 9 members of a committee are the same as it was 2 years ago, because an old number has been replaced by a younger number. Find how much younger is the new member than the old number?

A. 7 years B. 11 years C. 18 years D. 27 years

Answer: Option C

Explanation:

9 * 2 = 18 years

24. Nine men went to a hotel. Eight of them spent Rs.3 each over their meals and the ninth spent Rs.2 more than the average expenditure of all the nine. Determine the total money spent by them?

A. Rs.29.25 B. Rs.30.25 C. Rs.32 D. Rs.35

Answer: Option A

Explanation:

Average of 9 = x

9x = 8 * 3 + x * 2 x = 3.25

Total = 9 * 3.25 = 29.25

25. The average marks in mathematics scored by the pupils of a school at the public examination were 39. If four of these pupils who actually scored 5, 12, 15 and 19 marks at the examination had not been sent up, the average marks for the school would have been 44. Find the number of pupils sent up for examination from the school?

A. 20 B. 25 C. 30 D. 32

Answer: Option B

Explanation:

$39x = 5 + 12 + 15 + 19 + (x - 4)44$

$x = 25$

26. HCF and LCM two numbers are 12 and 396 respectively. If one of the numbers is 36, then the other number is?

A. 36 B. 66 C. 132 D. 264

Answer: Option C

Explanation:

$12 * 396 = 36 * x$

$x = 132$

27. Least perfect square number, exactly divisible by 21, 36 and 56 is?

A. 3600 B. 504 C. 441 D. 7056

Answer: Option D

Explanation:

LCM = 7 * 3 * 4 * 3 * 2 = 504

504 * 7 * 2 = 7056

28. In finding the HCF of two numbers, the last divisor was 41 and the successive quotients, starting from the first, where 2, 4 and 2. The numbers are?

A. 700,400 B. 820,360 C. 800,500 D. 820,369

Answer: Option D

29. A man was employed on the promise that he will be paid the highest wages per day. The contract money to be paid was Rs. 1189. Finally he was paid only Rs. 1073. For how many days did he actually work?

A. 39 B. 40 C. 37 D. 35

Answer: Option C

Explanation:

HCF of 1189, 1073 = 29

1073/29 = 37

30. An officer was appointed on maximum daily wages on contract money of Rs. 4956. But on being absent for some days, he was paid only Rs. 3894. For how many days was he absent?

A. 3 B. 4 C. 5 D. 6

Answer: Option A

Explanation:

HCF of 4956, 3894 = 354

(4956 - 3894)/354 = 3

31. Find the greatest number which will divide 25, 73 and 97 as so to leave the same remainder in each case?

A. 12 B. 18 C. 24 D. 32

Answer: Option C

Explanation:

32. Find the greatest number which is such that when 697, 909 and 1227 are divided by it, the remainders are all the same?

A. 53 B. 112 C. 108 D. 106

Answer: Option D

33. If population of certain city increases at the rate of 5%. If population in 1981 was 138915, then population in 1978 was?

A. 1,20,000 B. 1,10,000 C. 1,00,000 D. 90,000

Answer: Option A

Explanation:

X * (105/100) * (105/100) * (105/100) = 138915

X = 138915/1.157625

X = 120000

34. There were two candidates in an election. Winner candidate received 62% of votes and won the election by 288 votes. Find the number of votes casted to the winning candidate?

A. 456 B. 744 C. 912 D. 1200

Answer: Option B

Explanation:

W = 62% L = 38%

62% - 38% = 24%

24% -------- 288

62% -------- ? => 744

35. Nitin’s salary is reduced by 10% and then reduced salary is increased by 10%. Find ,how many percentage his present salary is less as compared to his previous salary?

A. Nothing B. 10% C. 1% D. 5%

Answer: Option C

Explanation:

10*10

-------- = 1%

100

36. A man spends 10% of his income in house rent, 20% of the rest on his children's education, 25% of the rest miscellaneous causes. If he now posses Rs. 1944 then his income is?

A. Rs.3600 B. Rs.4000 C. Rs.4500 D. Rs.3000

Answer: Option A

Explanation:

X * (90/100) * (80/100) * (75/100) = 1944

X * 0.9 * 0.8 * 0.75

X = 1944/0.54

X = 3600

37. If cost of sugar increases by 25%. How much percent consumption of sugar should be decreased in order to keep expenditure fixed?

A. 10% B. 15% C. 20% D. 25% E. None

Answer: Option C

Explanation:

100

125

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125 ----- 25

100 ------ ? => 20%

38. The price of an article has been reduced by 25%. In order to restore the original price the new price must be increased by?

A. 33 1/3 % B. 9 1/11 % C. 11 1/9 % D. 66 2/3 % E. None

Answer: Option A

Explanation:

100

75

----

75 ------- 25

100 ------ ? => 33 1/3%

39. Two numbers are 30% and 37% are less than a third number .How much percent is the second number less than the first?

A. 15% B. 12% C. 10% D. 5%

Answer: Option C

Explanation:

I II III

70 63 100

70 -------- 7

100 ------ ? => 10%

40. A man saves 20% of his monthly salary. If an account of dearness of things he is to increase his monthly expenses by 20%, he is only able to save Rs. 200 per month. What is his monthly salary?

A. Rs.5000 B. Rs.25000 C. Rs.7500 D. Rs.8500

Answer: Option A

Explanation:

Income = Rs. 100

Expenditure = Rs. 80

Savings = Rs. 20

Present Expenditure 80*(20/100) = Rs. 96

Present Savings = 100 – 96 =Rs. 4

100 ------ 4

? --------- 200 => 5000