ARITHMETIC

Miscellaneous - Average & Problems Based on Ages Worksheet

For students preparing for MAH-B.BCA/BBA/BMS/BBM CET 2024 for admission to BCA, BBA, BMS, BBM

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1. Father is four times the age of his daughter. If after 5 years, he would be threee times of daughter's age, then further after 5 years, how many times he would be of his daughter's age?
A. 1.5 times
B. 2 times
C. 2.5 times
D. 3 times

2. What is Aman's present age, if after 20 years his age will be 10 times his age 10 years back?
A. 6.2 years
B. 7.7 years
C. 13.3 years
D. 10 years

3. Nisha is 15 years elder to Romi. If 5 years ago, Nisha was 3 times as old as Romi, then find Nisha's present age.
A. 32.5 years
B. 27.5 years
C. 25 years
D. 24.9 years

4. One year ago, the ratio of Honey and Piyush ages was 2: 3 respectively. After five years from now, this ratio becomes 4: 5. How old is Piyush now?
A. 5 years
B. 25 years
C. 10 years
D. 15 years

5. Ten years ago, the age of mother was three times the age of her son. After ten years, mother's age will be twice that of his son. Find the ratio of their present ages.
A. 11 : 7
B. 9 : 5
C. 7 : 4
D. 7 : 3

6. Saransh is 50 years old and Nazma is 40 years old. How long ago was the ratio of their ages 3:2?
A. 20 years
B. 30 years
C. 40 years
D. 25 years

7. The ratio of the present ages of Pranav and Qureshi is 4:5. Five years ago, the ratio of their ages was 7:9. Find their present ages? (In years)
A. 40, 50
B. 18, 25
C. 40, 60
D. 20, 25

8. A man said to his son, "I was one-third of your present age when you were born". If the present age of the man is 48 years, find the present age of the son.
A. 25.7 years
B. 28 years
C. 29.3 years
D. 36 years

9. Dinesh is younger to Roshan by 9 years. If their ages are in the respective ratio of 4:5, how old is Dinesh?
A. 36 years

B. 23years
C. 29 years
D. Cannot be determined

10. The ratio of Sara's age 4 years ago and Vaishali's age after 4 years is 1: 1. Presently, the ratio of their ages is 5: 3. Find the ratio between Sara's age 4 years hence and Vaishali's age 4 years ago.
A. 1 : 3
B. 3 : 1
C. 4 : 3
D. 3 : 4

11. The average marks of 13 papers is 40. The average marks of the first 7 papers are 42 and that of the last seven papers is 35. Find the marks obtained in the 7th paper.
A. 23
B. 38
C. 19
D. 57

12. Mukul has earned as an average of 4,200 dollars for the first eleven months of the year. If he justifies his staying in the US on the basis of his ability to earn at least 5000 dollars per month for the entire year, then how much should he earn (in dollars) in the last month to achieve his required average for the whole year?
A. 14600
B. 13800
C. 12,800
D. 11800

13. The average of x, y and z is 45. x is as much more than the average as y is less than the average. Find the value of z.
A. 45 years
B. 35 years
C. 60 years
D. 15 years

14. The average for some number of terms (say 'n') is zero. How many maximum numbers of terms can be negative?
A. 0
B. n
C. n+1
D. n-1

15. The average salary of 30 officers in a firm is Rs.120 and the average salary of laborers is Rs. 40. Find the total number of laborers if the average salary of the firm is Rs. 50.
A. Rs. 180
B. Rs. 420
C. Rs. 240
D. Rs. 210

16. In a class, the average marks of 40 students was calculated to be 52.15. It was later discovered that the marks of a student were taken to be 49, instead of 85. Find the real average of the class.
A. 53.05
B. 53.15
C. 52.85
D. 52.95

17. For 9 innings, Aman has a certain run rate. In the tenth inning, he scores 100 runs, thereby increasing his run rate by 8 runs. What is his new run rate?
A. Rs. 22
B. Rs. 26
C. Rs. 28
D. Rs. 32

18. The average of 5 consecutive numbers is n. What will be the average if the next two numbers are included?
A. n+2
B. n-1
C. n-2
D. n+1

19. In 40 overs game, in first 20 overs of a game of cricket, the run rate was only 5. What should be the run rate for the remaining overs so that the total score reaches 300?
A. 15
B. 10
C. 28
D. 20

20. The average weight of 39 men travelling to Ladakh is 30. If an obese man with weight 130 kg join them. What will be the average weight of the people travelling to Ladakh?
A. 52
B. 30
C. 32.5

D. 130

Answer Key

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