MATHS

Equations in Two Variables 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. The product of two numbers is 3200 and the quotient when the larger number is divided by the smaller is 2. The numbers are _____
   A. 16, 200
   B. 160, 20
   C. 60, 30
   D. 80, 40

2. Ten years ago the age of a father was four times of his son. Ten years hence the age of the father will be twice that of his son. The present ages of the father and the son are _____.
   A. (50, 20)
   B. (60, 20)
   C. (55, 25)
   D. None of these

3. Divide 56 into two equal parts such that three times the first part exceeds one third of the second by 48. The parts are _____.
   A. (20, 36)
   B. (25, 31)
   C. (24, 32)
   D. None of these

4. Salil's age is 23 years more than half of the Sangram's age. Five years ago, the sum of their ages was 55 years. Find their present ages.
   A. (23, 66)
   B. (37, 28)
   C. (33, 56)
   D. (40, 60)

5. A two digit number is 4 times the sum of its digits. If we interchange the digits, the number obtained is 9 less than 4 times the original number. Then find the number.
   A. 50
   B. 33
   C. 36
   D. 48

6. Divide a rope of length 560 cm into 2 parts such that twice the length of the smaller part is equal to 1/3 of the larger part. Then find the length of the larger part.
   A. 450
   B. 460
   C. 480
   D. 490

7. In D ABC, the measure of angle A is equal to the sum of the measures of ∠ B and ∠ C. Also the ratio of measures of angle ∠ B and ∠ C is 4 : 5. Then find the measures of angles of the triangle
   A. 120°,180°,30°
   B. 60° ,30°, 120°
   C. 90°, 40°, 50°
   D. 30°,45°, 45°

8. A man starts his job with a certain monthly salary and earns a fixed increment every year. If his salary was ₹ 1,500 after 4 years of service and ₹ 1,800 after 10 years of service, what was his starting salary and what is the annul increment in rupees?
   A. ₹ 1,300, ₹ 50
   B. ₹ 1,100, ₹ 50
   C. ₹ 1,500, ₹ 30
   D. None

9. A man went to the Reserve Bank of India with ₹ 1,000. He asked the cashier to give him ₹ 5 and ₹ 10 notes only in return. The man got 175 notes in all. Find how many notes of ₹ 5 and ₹10 did he receive?

A. (25, 150)
B. (40, 110)
C. (150, 25)
D. None

10. The sum of the digits of a two-digit number is 10. If 18 be subtracted from it the digits in the resulting number will be interchanged. The number is

A. 46
B. 64
C. 65
D. None of these

Answer Key

1. D	2. A	3. A	4. B	5. C	6. C	7. C	8. A	9. C	10. B