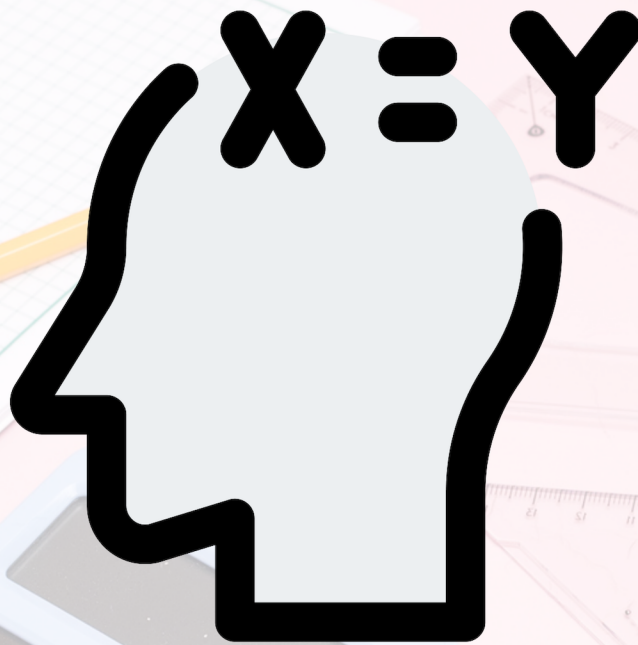




SIMPLE EQUATIONS

Worksheet 2



**FAILURE WILL NEVER OVERTAKE ME
IF MY DETERMINATION TO SUCCEED
IS STRONG ENOUGH.**



1. 3 years ago, the average age of wife, husband and their child was 27 years. 5 years ago the average age of wife and child was 20 years. The present age of husband is

- A. 50 years B. 40 years C. 30 years D. None of these
-

2. Solve for m: $\frac{(m+2)(2m-3) - 2m^2 + 6}{m-4} = 7$

- A. $\frac{14}{3}$ B. 10 C. 15 D. $\frac{20}{3}$
-

3. 4 years ago, the average age of Sakshi, Anjali and Samridhi was 32 years. 6 years ago, the average age of Anjali and Samridhi was 30 years. Find the present age of Sakshi.

- A. 50 years B. 48 years C. 36 years D. 42 years
-

4. Which of the following is a linear equation in one variable?

- A. $(3x-1)^2 = 9x^2 + 4x - 4$ B. $(9x-2)^2 = 5x - 5x^2 + 5$ C. $2x^2 = 3x - 2$ D. None of these
-

5. A number is multiplied by $2\frac{1}{3}$ times itself and then 61 is subtracted from the product obtained. If the final result is 9200, then the number is _____.

- A. 36 B. 63 C. 67 D. 37
-

6. 15 years ago, Kanika's father was five times as old as Kanika. After 15 years, her father will be thrice as old as her. The present age of Kanika is _____.

- A. 30 years B. 10 years C. 45 years D. 25 years
-

7. Find the value of a that satisfies the equation $\frac{7}{4a-2} = \frac{5}{3a-4}$.

- A. 18 B. 10 C. 9 D. 12
-

8. The length of a rectangle is 3 times its breadth. If the length is decreased by 3 cm and the breadth increased by 5 cm, the area of the rectangle is increased by 57 cm^2 .

- A. 18 cm B. 48 cm C. 24 cm D. 20 cm
-

9. I am three times as old as my son and 15 years later, I will be twice as old as my son. What can be the sum of our ages at present?

- A. 48 years B. 60 years C. 84 years D. 72 years
-

10. If the sum of three consecutive even numbers is 234, which is smallest among them?

- A. 76 B. 78 C. 80 D. 68



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