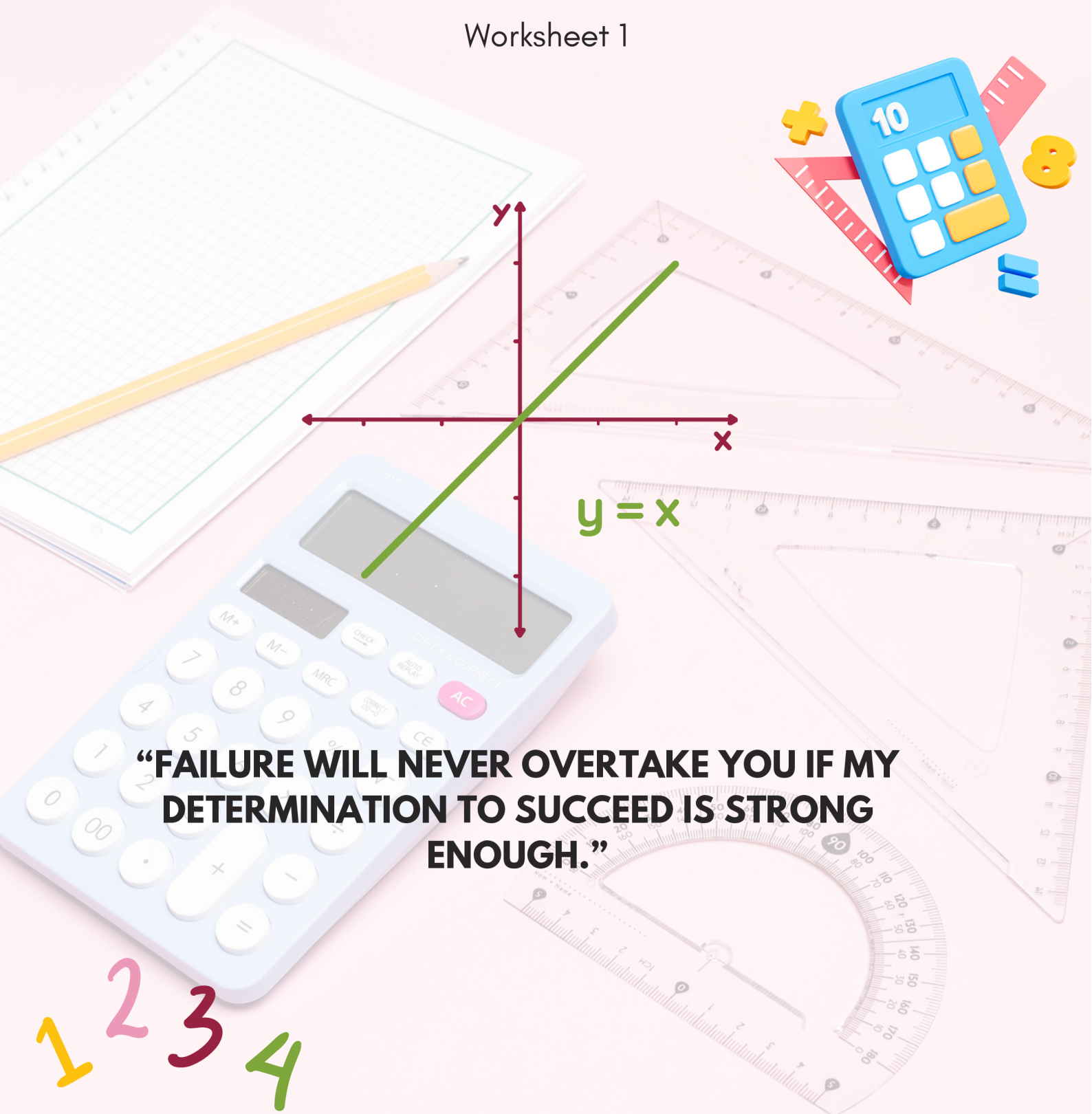




LINEAR EQUATIONS IN 2 VARIABLES

Worksheet 1



“FAILURE WILL NEVER OVERTAKE YOU IF MY DETERMINATION TO SUCCEED IS STRONG ENOUGH.”

1 2 3 4

1. Which of the following is not a linear equation in two variables?

- A. $px + qy + c = 0$ B. $ax^2 + bx + c = 0$ C. $3x + 2y = 5$ D. All the above
-

2. Two numbers are in the ratio 3:4. If five is subtracted from each, the resulting number are in the ratio 2:3. Then the smallest number is _____

- A. 15 B. 20 C. 18 D. 24
-

3. If the point (3, 4) lies on the graph of the equation $3y = ax + 7$, find the value of a.

- A. $\frac{5}{3}$ B. $\frac{3}{5}$ C. $\frac{2}{5}$ D. $\frac{3}{4}$
-

4. 3-years ago, the sum of ages of a father and his son was 40 years. After 2-year, the sum of ages of the father and his son will be _____

- A. 40 B. 46 C. 50 D. 56
-

5. Sum of the digits of two digit number is 9. The number obtained by interchanging the digit is 18 more than twice the original number. The original number is:

- A. 72 B. 27 C. 36 D. 63
-

6. In the equation $3x + 2y = 13xy$ and $4x - 5y = 2xy$, the value of x and y are:

- A. (2, 3) B. (3, 2) C. $(\frac{1}{2}), (\frac{1}{3})$ D. $(\frac{1}{3}), (\frac{1}{2})$
-

7. The sum of the present ages of father and his son is 60 years. 6 years ago, father's age was five times the age of his son. After six years son's age will be:

- A. 20 years B. 14 years C. 12 years D. 18 years
-

8. If $x + y = 7$ and $3x - 2y = 11$. Then the value of x will be:

- A. 5 B. 6 C. 7 D. 8
-

9. A fraction becomes $\frac{1}{3}$, if 2 is added to both numerator and denominator. If 3 is added to both numerator and denominator it becomes $\frac{2}{5}$. find the fraction

- A. $\frac{1}{3}$ B. $\frac{1}{7}$ C. $\frac{1}{9}$ D. $\frac{4}{5}$
-

10. If $\frac{4x - 3y}{7x - 6y} = \frac{4}{13}$, find $\frac{x}{y}$

- A. $\frac{1}{8}$ B. $\frac{3}{8}$ C. $\frac{5}{8}$ D. $\frac{7}{8}$
-



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Answer Key

1. B

2. A

3. A

4. C

5. B

6. C

7. B

8. A

9. B

10. C



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