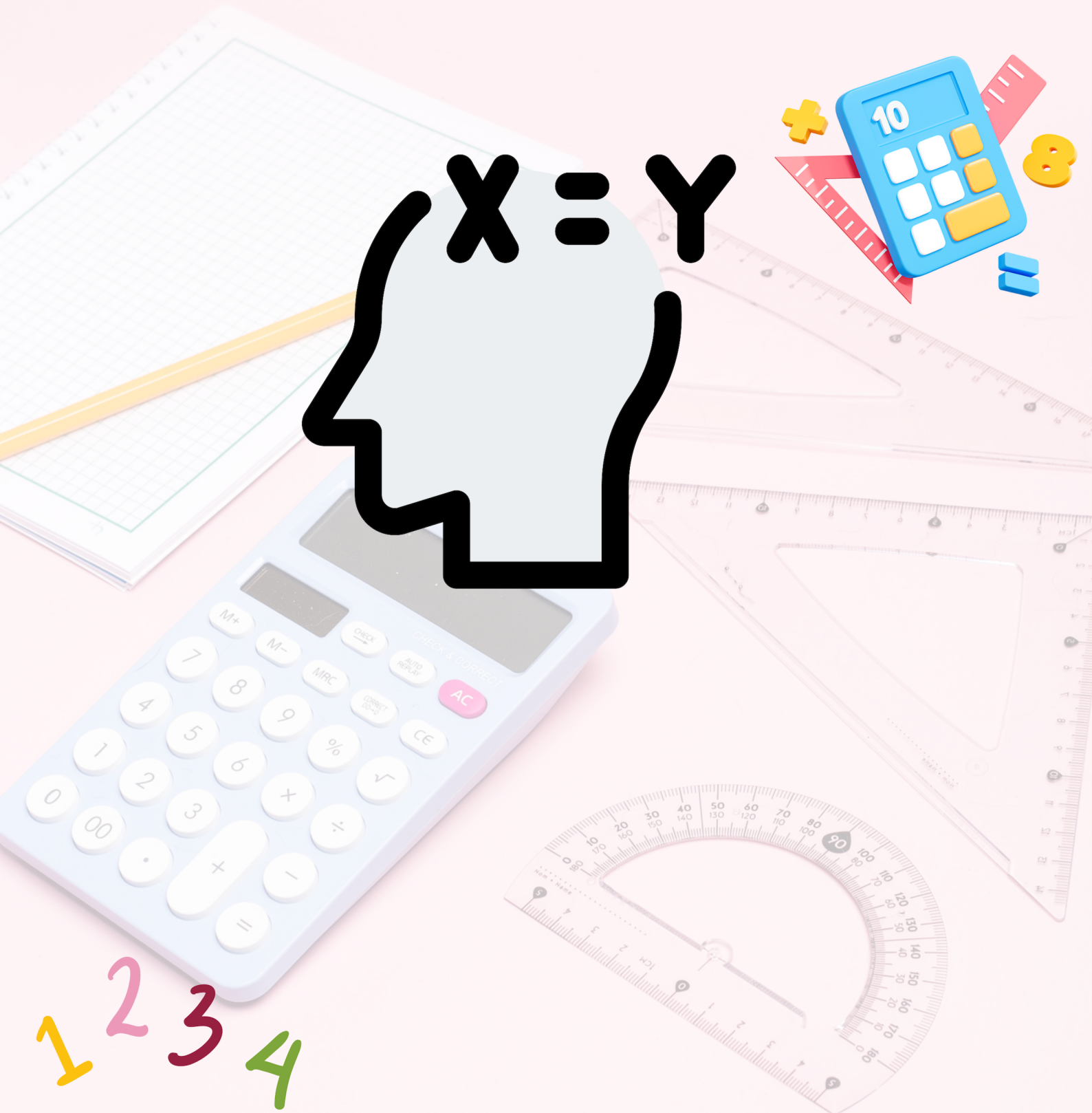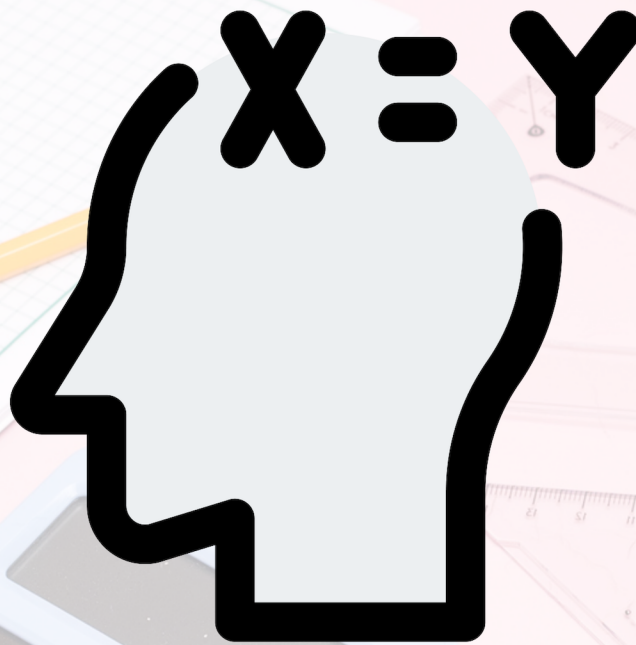# SIMPLE EQUATIONS

Worksheet 3

1. If 10 is added to four times a certain number, the result is 5 less than five times the number. What is the number?

A. 10   B. 15   C. 20   D. 25

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2. If the number whose one fifth part when increased by 30, is equal to its one-fourth part decreased by 30. Then, find the number.

A. 120   B. 180   C. 1200   D. 1800

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3. If the product of two numbers is 10 and their sum is 7, what is the larger of the two numbers?

A. –2   B. 2   C. 5   D. 4

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4. The age of a man is same as his wife's age with the digits reversed. The sum of their ages is 99 years, and the man is 9 years older than his wife. The age of man is

A. 54 years   B. 45 years   C. 63 years   D. 36 years

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5. The denominator of a rational number is greater than its numerator by 10. If the numerator is increased by 5 and denominator is decreased by 1, then the number obtained is $\frac{3}{4}$. Find the original number.

A. $\frac{3}{14}$ B. $\frac{7}{17}$ C. $\frac{2}{17}$ D. $\frac{4}{15}$

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6. If the angle of a triangle are $(x-35)^o, (x-25)^o \text{ and} \left(\frac{1}{2}x - 10\right)^o$, then find the value of x.

A. 150° B. 170° C. 110° D. 100°

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7. In the following expression, find the value of x: $\frac{(x-3)}{4} + \frac{(x-7)}{5} - \frac{(x-2)}{7} = \frac{7}{10}$

A. $8\frac{15}{43}$ B. $7\frac{16}{43}$ C. $7\frac{22}{43}$ D. $6\frac{39}{43}$

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8. If 11 is subtracted from 5 times a number and it becomes the same as 4 subtracted from 7 times the number, then this fact can be represented as _____.

A. 5x – 11 = 4x – 7   B. 5x – 11 = 7x – 4   C. 11x – 5 = 4x – 7   D. 11x – 5 = 7x – 4

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9. Solve: $\frac{2x}{3} - \frac{x-1}{6} + \frac{7x-1}{4} = 2\frac{1}{6}$. Hence find the value of 'a' if $\frac{1}{a} + 5x = 8$.

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10. Fifteen more than 3 times Neetu's age is same as 4 times her age. How old is she?

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