



Worksheet Grade 8
Linear Equation in One Variable

Q1) Solve

a) $\frac{2}{3}(x - 5) - \frac{1}{4}(x - 2) = \frac{9}{2}$ b) $\frac{3a-2}{3} + \frac{2a+3}{2} = a + \frac{7}{6}$

c) $[(2x + 3) + (x + 5)]^2 + [(2x + 3) - (x + 5)]^2 = 10x^2 + 92$

d) $\frac{2x+5}{3} = 3x - 10$ e) $\frac{2x-3}{3x+2} = -\frac{2}{3}$

Q2) Kanchan is three years older than Gunjan. Six years ago, Kanchan's age was four times Gunjan's age. Find the ages of Kanchan and Gunjan.

Q3) A number is such that it is as much greater than 84 as it is less than 108. Find it.

Q4) Divide 34 into two parts in such a way that $\left(\frac{4}{7}\right)^{th}$ of one part is equal to $\left(\frac{2}{5}\right)^{th}$ of the other.

Q5) The Numerator of a fraction is 4 less than the denominator. If 1 is added to the both its numerator and denominator, it becomes $\frac{1}{2}$. Find the fraction.

Q6) A number consists of two digits whose sum 9. If 27 is added to the number its digits are reversed. Find the number.



Answer Key

A1)

a) $\frac{88}{5}$ b) $\frac{1}{3}$ c) $\frac{6}{11}$ d) 5 e) $\frac{5}{12}$

A2) Kanchan 10yrs Gunjan 7yrs

A3) 96

A4) 14,20

A5) $\frac{3}{7}$

A6) 36,63