
1. SIMPLE EQUATIONS

I. SOLVE

- (i) $7y + 5 = 19$ ($y = 2$)
(ii) $\frac{3k + 9}{6} = 5$ ($k = 7$)
(iii) $a + 5 = 11$ ($a = 6$)
(iv) $12a + 4 = 40$ ($a = 3$)
(v) $\frac{2x}{4} = 11$ ($x = 22$)
(vi) $\frac{3m}{7} = 9$ ($m = 21$)
(vii) $2a - 4 = 6$ ($a = 5$)
(viii) $4(x + 3) = 20$ ($x = 2$)
(ix) $8x - 5 = 2 + 19$ ($x = 4$)
(x) $\frac{2m}{7} + 6 = 10$ ($m = 14$)
(xi) $3(2x - 1) + 5 = 14$ ($x = 2$)
(xii) $2z - (7 - 5z) - 21 = 0$ ($z = 4$)
(xiii) $\frac{8x}{3} + 4 = 12$ ($x = 3$)
(xiv) $3(y - 1) = 2(2y - 6)$ ($y = 11$)
(xv) $5 - 6(-2) + 13 = 6$ ($x = -4$)

II. Set up equations and solve.

- (i) Add 7 to 3times a number, you get 34. Find the number. ($x = 9$)
(ii) Subtract 23 from thrice a number the result is 7.find the number.
($x = 10$)
(iii) Anmol's mother is 4 years more than 3times Anmol's age. Find Anmol's age if mother is 40 years old.
(iv) Tony scored twice as many runs as Kohli. Together they scored 6 short of triple century. How many runs did each score? (196, 98).
(v) The three angles of a triangle are in the ratio 2:3:5. Find the measure of each angle. Classify the triangle (36, 54, 90). (right angled triangle).
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