

Worksheet #5 ~~Section 2.3~~ Decimal Linear Equations

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Solve each equation leaving your final answer as a whole number or a fraction in reduced form.

(1) $0.45x = 9$

(2) $3.4 = -1.7y$

(3) $a - 0.01a = 33$

(4) $3.2x - 0.88 + 1.2x = 0$

(5) $0.2x - 4.7 = 1.7x - 3.2$

(6) $b - 5 + 0.2b = -0.2$

(7) $0.3a - 7.8 = -2.3a$

(8) $8.1 - 0.6t = 7.2$

(9) $3n - 2.07n + 4.65 = 0$

(10) $4.1a - 2.3a + 1.4a = 17.3 + 21.1$

(11) $0.27s + 8.3 = 2.7s + 1.01$

(12) $0.2(4x - 1.5) = 15.7$

(13) $-6.4 - 7.1a = -1.7a - 55$

(14) $0.21(3z - 11) = 5.88$

(15) $1.5 - 0.5(2x - 17) = 9.7$

(16) $0.9t - 0.1(50 - t) = 12$

(17) $8.2y - 1.05 = 5.3y - 2.5$

(18) $-3.2a = -96$

(19) $-2.1(3a - 10) = -1.05$

(20) $30 - 30(0.2z - 12) = 12$

(21) $0.12(x - 200) + 0.2(x + 110) = 62$

(22) $0.4(3x - 15) = 0$

(23) $2.15 - 0.3(2s - 8) = 0.4s - 2.45$

(24) $0.9(x - 0.2) = -7.38$

(25) $7.92 = 1.1(2a - 4.8)$

(26) $0 = 3.4 - 0.17z$

(27) $0.19(x - 100) - 0.11(x + 200) = 23$

(28) $0.3(2y - 12) - 0.5(y - 20) = 3.4$

(29) $0.3(0.2x - 20) = 0.2(0.5x - 20)$

(30) $0.07z = -0.72 - 5(0.3z - 1.4)$

Answers: (1) 20 (2) -2 (3) $\frac{100}{3}$ (4) $\frac{1}{5}$ (5) -1 (6) 4 (7) 3 (8) $\frac{3}{2}$
(9) -5 (10) 12 (11) 3 (12) 20 (13) 9 (14) 13 (15) $\frac{3}{10}$ (16) 17 (17) $-\frac{1}{2}$
(18) 30 (19) $\frac{7}{2}$ (20) 63 (21) 200 (22) 5 (23) 7 (24) -8 (25) 6 (26) 20
(27) 800 (28) -30 (29) -50 (30) 4