# Equations Test Corrections

Mar 4-7:23 AM

1) $\frac{-12v}{-12} = \frac{108}{-12}$

$v = -9$

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2) $2+4x=-18$

$-2 \quad +-2$

$4x=-20$

$\frac{4x}{4}=\frac{-20}{4}$

$x=-5$

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3) $-x+16=-8$

$-16 \quad +-16$

$-x=-24$

$\frac{-x}{-1}=\frac{-24}{-1}$

$x=24$

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4) $\frac{x}{2} + 6 = 16$

$-6 \quad -6$

$2 \cdot \frac{x}{2} = 10 \cdot 2$

$x = 20$

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5) $6x + 5 = 17$

$-5 \quad -5$

$\frac{6x}{6} = \frac{12}{6}$

$x = 2$

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6) $3x + 5x = -64$

$\frac{8x}{8} = \frac{-64}{8}$

$x = -8$

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7) $5(2x - 10) = -60$

$5 \cdot 2x - 5 \cdot 10 = -60$

$10x - 50 = -60$

$+50 \quad +50$

$\frac{10x}{10} = \frac{-10}{10}$

$x = -1$

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8) $6x+9=19+x$

$-x \qquad -x$

$5x+9=19$

$-9 \quad -9$

$\frac{5x}{5}=\frac{10}{5}$

$x=2$

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9) $5.2m+11.15=-3.41$

$-11.15 \quad +-11.15$

$\frac{5.2m}{5.2}=\frac{-14.56}{5.2}$

$m=-2.8$

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10) $4 + x = 16$ or $x + 4 = 16$

11) $2x - 30 = 42$

12) $x + 6 = 12$

13) $v \div 10 = 19$ or $\frac{v}{10} = 19$

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14) $3 \cdot p = 27$ or $3p = 27$

15) $2x + 5 = 25$ or $5 + 2x = 25$

16) $14 \div 3 \cdot x = 72$

$\frac{14}{3}x = 72$

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17) $L = (3 + 2s)$

$S$ = Shana's stickers

$L + S = 51$

$(3 + 2s) + S = 51$

$3 + 3s = 51$

$-3 \quad -3$

$3s = 48$

$\frac{3s}{3} = \frac{48}{3}$

$s = 16$

$3 + 2s = L$

$3 + 2 \cdot 16 = L$

$3 + 32 = L$

$35 = L$

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18) $J = 4T$

$T$ = Taela's money

$J + T = 100$

$4T + T = 100$

$\frac{5T}{5} = \frac{100}{5}$

$T = 20$

$J = 4T$

$J = 4 \cdot 20$

$J = 80$

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19) $5 \cdot x + 3 = 18$

$5x + 3 = 18$

$-3 \quad -3$

$\frac{5x}{5} = \frac{15}{5}$

$x = 3$

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20) J: $3 + 2M$

M: Michael's age

$J + M = 60$

$3 + 2M + M = 60$

$3 + 3M = 60$

$-3 \quad -3$

$\frac{3M}{3} = \frac{57}{3}$

$M = 19$

$J = 3 + 2M$

$J = 3 + 2 \cdot 19$

$J = 3 + 38$

$J = 41$

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