Why Do Girls Like Guys Who Wear Shirts With Eight Buttons?

Solve each equation below and find your solution at the bottom of the page.
Write the letter of that equation above the solution.

(E) $4(5n - 7) = 10n + 2$ → $10n = 30$
  $20n - 28 = 10n + 2$ → $\boxed{n = 3}$

(N) $9(x + 3) = 4x - 3$ → $5x = -30$
  $9x + 27 = 4x - 3$ → $\boxed{x = -6}$

(A) $2(12 - 8x) = x - 11x$ → $24 = 6x$
  $24 - 16x = -10x$ → $\boxed{x = 4}$

(H) $3t + 8(2t - 6) = 2 + 14t$ → $5t = 50$
  $3t + 16t - 48 = 2 + 14t$ → $\boxed{t = 10}$

(E) $2v + 18 = 16 - 4(v + 7)$ → $6v = -30$
  $2v + 18 = 16 - 4v - 28$ → $\boxed{v = -5}$

(I) $4x - (9 - 3x) = 8x - 1$ → $-x = 8$
  $4x - 9 + 3x = 8x - 1$ → $\boxed{x = -8}$

(T) $12(3 + y) = 5(2y + 8)$ → $2y = 4$
  $36 + 12y = 10y + 40$ → $\boxed{y = 2}$

(A) $-7(1 - 4m) = 13(2m - 3)$ → $2m = -32$
  $-7 + 28m = 26m - 39$ → $\boxed{m = -16}$

(Y) $9(11 - k) = 3(3k - 9)$ → $-18k = -126$
  $99 - 9k = 9k - 27$ → $\boxed{k = 7}$

(S) $4x + 5(7x - 3) = 9(x - 5)$ → $30x = -30$
  $4x + 35x - 15 = 9x - 45$ → $\boxed{x = -1}$

(T) $2(6d + 3) = 18 - 3(16 - 3d)$ → $3d = -36$
  $12d + 6 = 18 - 48 + 9d$ → $\boxed{d = -12}$

(F) $8(4u - 1) - 12u = 11(2u - 6)$ → $-2u = -58$
  $32u - 8 - 12u = 22u - 66$ → $\boxed{u = 29}$

(C) $-5 - (15y - 1) = 2(7y - 16) - y$ → $-28y = -28$
  $-5 - 15y + 1 = 14y - 32 - y$ → $\boxed{y = 1}$

$18\overline{)126}$
-126
$\overline{0}$ → 7

T	H	E	Y		F	A	S	C	I	N	A	T	E
2	10	3	7	9	29	4	−1	1	−8	−6	−16	−12	−5

OBJECTIVE 4–c: To solve equations containing parentheses
and having the variable in both sides.

CRYPTIC QUIZ

1. Why did the little girl paint spots on the staircase?

Answer: $\underset{14}{S}\ \underset{7}{H}\ \underset{4}{E}\ \underset{3}{W}\ \underset{11}{A}\ \underset{14}{S}\ \underset{11}{A}\ \underset{14}{S}\ \underset{15}{T}\ \underset{4}{E}\ \underset{1}{P}\ \underset{9}{D}\ \underset{2}{O}\ \underset{15}{T}\ \underset{15}{T}\ \underset{4}{E}\ \underset{12}{R}$

2. What do you call a thirty-six-inch two-by-four?

Answer: $\underset{11}{A}\ \underset{10}{L}\ \underset{6}{U}\ \underset{13}{M}\ \underset{8}{B}\ \underset{4}{E}\ \underset{12}{R}\ \underset{5}{Y}\ \underset{11}{A}\ \underset{12}{R}\ \underset{9}{D}$
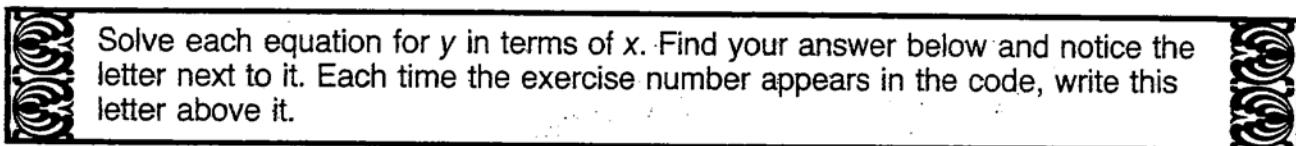
> Solve each equation for y in terms of x. Find your answer below and notice the letter next to it. Each time the exercise number appears in the code, write this letter above it.

P (1) $x + y = 5 \rightarrow \boxed{y = -x + 5}$
$\quad -x \quad -x$

O (2) $-3x + y = -2 \quad \boxed{y = 3x - 2}$
$\quad +3x \quad +3x$

W (3) $x - y = 7 \quad \boxed{y = x - 7}$
$\quad -7 +y \quad -7 +y$

(4) $-4x - y = 1 \quad \boxed{y = -4x - 1}$
$\quad -1 +y \quad +y$

Y (5) $3x - y = -10 \quad \boxed{y = 3x + 10}$
$\quad +10 +y \quad +y +10$

(6) $-x + 2y = 6 \quad \boxed{y = \frac{1}{2}x + 3}$

(7) $x - 2y = 2 \quad \boxed{y = \frac{1}{2}x - 1}$

(8) $-2x + 3y = -12 \quad \boxed{y = \frac{2}{3}x - 4}$

(9) $5x + 2y = 1 \quad \boxed{y = -\frac{5}{2}x + \frac{1}{2}}$

(10) $4x - 3y = -2 \quad \boxed{y = \frac{4}{3}x + \frac{2}{3}}$

(11) $3x + 2y - 6 = 0 \quad \boxed{y = -\frac{3}{2}x + 3}$

(12) $x - 4y + 2 = 0 \quad \boxed{y = \frac{1}{4}x + \frac{1}{2}}$

(13) $-2x - 6y = 0 \quad \boxed{y = -\frac{1}{3}x}$

(14) $8y - 3x = -6 \quad \boxed{y = \frac{3}{8}x - \frac{3}{4}}$

(15) $7x = 2y \quad \boxed{y = \frac{7}{2}x}$

Answers:

(E) $y = -4x - 1$

(F) $y = 3x - 1$

(P) $y = -x + 5$

(W) $y = x - 7$

(Y) $y = 3x + 10$

(O) $y = 3x - 2$

Answers:

(D) $y = -\frac{5}{2}x + \frac{1}{2}$

(U) $y = \frac{1}{2}x + 3$

(L) $y = \frac{4}{3}x + \frac{2}{3}$

(G) $y = \frac{3}{4}x - 4$

(H) $y = \frac{1}{2}x - 1$

(B) $y = \frac{2}{3}x - 4$

Answers:

(N) $y = \frac{4}{3}x + \frac{1}{4}$

(S) $y = \frac{3}{8}x - \frac{3}{4}$

(R) $y = \frac{1}{4}x + \frac{1}{2}$

(A) $y = -\frac{3}{2}x + 3$

(T) $y = \frac{7}{2}x$

(M) $y = -\frac{1}{3}x$

 OBJECTIVE 5–d: To solve an equation for y in terms of x.