

What Were the Headlines After a 3 Foot 10 Inch Fortuneteller Escaped From Jail?

Key



Solve each equation and find your solution below. Cross out the box containing that solution. When you finish, write the letters from the remaining boxes in the spaces at the bottom of the page.

- 1 $3(2x + 5) = 39$
- 2 $2(6k - 1) = -38$
- 3 $8(7 - y) = -24$
- 4 $-4(8 + 5n) = 8$
- 5 $6(3x - 5) - 7x = 25$
- 6 $-2(5 + 6m) + 16 = -90$
- 7 $15(t + 2) + 9t = 6$
- 8 $7w - 3(4w + 8) = 11$
- 9 $22 - 5(6v - 1) = -63$
- 10 $18x - (8x - 7) = 67$
- 11 $8(-2x - 4) + 12 = -52$
- 12 $2(9n - 1) + 7(n + 6) = -60$
- 13 $-3(3x + 15) - (10 + x) = 35$
- 14 $11(4 - 6y) + 5(13y + 1) = 9$

See next 2 pgs for worked out solutions

MID 5	THE -9	GET -1	SMA 12	SHA 2	RTF 40	AWA -3	LLM 35	AKE -7	EDI 15
TOR -2	UMA -14	PRI 6	UNJ 4	TLA -20	SON 3	AIL 10	CHA -4	RGE -12	TLE 8

5.3 Multi-Step Equations

① $3(2x+5) = 39$
 $6x + 15 = 39$
 $6x = 24$
 $x = 4$

② $2(6k-1) = -38$
 $12k - 2 = -38$
 $12k = -36$
 $k = -3$

③ $8(7-y) = -24$
 $56 - 8y = -24$
 $-8y = -80$
 $y = 10$

④ $-4(8+5n) = 8$
 $-32 - 20n = 8$
 $-20n = 40$
 $n = -2$

⑤ $6(3x-5) - 7x = 25$
 $18x - 30 - 7x = 25$
 $11x - 30 = 25$
 $11x = 55$
 $x = 5$

⑥ $-2(5+6m) + 16 = -90$
 $-10 - 12m + 16 = -90$
 $-12m + 6 = -90$
 $-12m = -96$
 $m = 8$

⑦ $15(t+2) + 9t = 6$
 $15t + 30 + 9t = 6$
 $24t + 30 = 6$
 $24t = -24$
 $t = -1$

⑧ $7w - 3(4w+8) = 11$
 $7w - 12w - 24 = 11$
 $-5w - 24 = 11$
 $-5w = 35$
 $w = -7$

5.3 cont.

$$\begin{aligned} \textcircled{9} \quad 22 - 5(6V - 1) &= -63 \\ 22 - 30V + 5 &= -63 \\ -30V + 27 &= -63 \\ -30V &= -90 \\ \boxed{V} &= \boxed{+3} \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad 18x - (8x - 7) &= 67 \\ 18x - 8x + 7 &= 67 \\ 10x + 7 &= 67 \\ 10x &= 60 \\ \boxed{x} &= \boxed{6} \end{aligned}$$

$$\begin{aligned} \textcircled{11} \quad 8(-2x - 4) + 12 &= -52 \\ -16x - 32 + 12 &= -52 \\ -16x - 20 &= -52 \\ -16x &= -32 \\ \boxed{x} &= \boxed{2} \end{aligned}$$

$$\begin{aligned} \textcircled{12} \quad 2(9n - 1) + 7(n + 6) &= -60 \\ 18n - 2 + 7n + 42 &= -60 \\ 25n + 40 &= -60 \\ 25n &= -100 \\ \boxed{n} &= \boxed{-4} \end{aligned}$$

$$\begin{aligned} \textcircled{13} \quad -3(3x + 15) - (10 + x) &= 35 \\ -9x - 45 - 10 - x &= 35 \\ -10x - 55 &= 35 \\ -10x &= 90 \\ \boxed{x} &= \boxed{-9} \end{aligned}$$

$$\begin{aligned} \textcircled{14} \quad 11(4 - 6y) + 5(13y + 1) &= 9 \\ 44 - 66y + 65y + 5 &= 9 \\ -1y + 49 &= 9 \\ -1y &= -40 \\ \boxed{y} &= \boxed{40} \end{aligned}$$