Why Do Cowboys Have So Much Trouble With Math?

Solve each equation or problem and find your solution in the answer column.
Write the letter of the answer in each box that contains the exercise number.
If the answer has a ●, shade in the box instead of writing a letter in it.

(1) $8x + 15 = 3x - 20$

(2) $9n - 2 = 7n + 50$

(3) $18 - 5y = y + 4$

(4) $-7a - 10 = 20 - 3a$

(5) $11d = 81 - 16d$

(6) $-22 - x = 5 + 6x + 9$

(7) $10b - 25 - 3b = 4b - 1$

(8) $33 + 15w = 3w - w + 4w$

(9) The Sun Spa charges annual dues of $125 plus $10 per hour to use the facilities. The Moon Spa charges annual dues of $230 plus $7 per hour to use the facilities. For what number of hours would the two spas charge the same total amount?

(10) $9(m - 2) = m + 40$

(11) $3(2p + 7) = 15(p - 4)$

(12) $5x + 2(11 - 4x) = 82 + x$

(13) $16 - 5(3t - 4) = 8(-2t + 11)$

(14) $7(7c + 1) - 4c = 13(3c - 2)$

(15) $12(5 + 2y) = 4y - (6 - 9y)$

(16) $3q - 16q = 7 + 2(-8q - 3)$

(17) $14 - 3(5t - 12) = 1 - (20t + 1)$

(18) Simon says: "Five times my age 4 years ago is the same as 3 times my age in 2 years." How old is Simon now?

Answers 1–9

- **(A)** 8
- **(I)** $-7\frac{1}{2}$
- **(K)** 38
- **●** $-5\frac{1}{7}$
- **(O)** -7
- **(P)** $-3\frac{2}{3}$
- **(T)** 3
- **(E)** $2\frac{1}{3}$
- **(D)** 35
- **(C)** $-4\frac{1}{4}$
- **(S)** 26
- **(J)** 5

Answers 10–18

- **(M)** 18
- **(L)** $-5\frac{1}{2}$
- **(N)** 13
- **(G)** 9
- **(R)** -10
- **(B)** $-7\frac{3}{4}$
- **●** 52
- **(W)** $7\frac{1}{4}$
- **(F)** 12
- **(H)** $\frac{1}{3}$
- **(Y)** -15
- **(U)** -6

5	16	3	12	6	7	14	10	7	12	2	13	17	1	15	18	9	6	5	16	4	18	11	2	13	15	8