

Solving Equations Puzzle

Directions: Solve each equation. The answers are given in the answer bank. Match each letter with the correct question number. Once you finish all equations, fill in the letters at the bottom of this page. Show your work for each problem and write the answer to the right of each equation.

Question: Why is a math book always unhappy?

ANSWER BANK

| | | | | | | |
|---------------------|--------------------------------|--|--------------------|-----------------------------------|---------------------|-----------------------------|
| A) $x = 9$ | W) $x = \frac{2}{5}$ | P) $x = -7$ | L) $x = 4$ | R) $x = -25$ | B) $x = -17$ | O) $x = 10$ |
| H) $x = 282$ | Y) $x = -2$ | T) $x = 7$ | I) $x = -3$ | C) $x = -\frac{3352}{667}$ | U) $x = -19$ | E) $x = \frac{1}{6}$ |
| S) $x = -8$ | F) $x = -\frac{29}{13}$ | M) $x = 9$ (second time it appears) | | | | |

| | |
|---|---|
| 1) ____ $-4x = 68$ | 2) ____ $-14 = x + 5$ |
| 3) ____ $x - 9 = -2$ | 4) ____ $-7x = 49$ |
| 5) ____ $47 = \frac{x}{6}$ | 6) ____ $2x - 5 = 13$ |
| 7) ____ $6 = \frac{x}{8} + 7$ | 8) ____ $6(x - 3) = 36$ |
| 9) ____ $12 + 9x = -6$ | 10) ____ $7x - 8(x + 3) = 1$ |
| 11) ____ $2x + 5 = -x - 4$ | 12) ____ $-\frac{3}{8} + x = -\frac{5}{24}$ |
| 13) ____ $\frac{2}{3} - \frac{5}{6}x = \frac{1}{3}$ | 14) ____ $8x - 3 - 5x = 2x + 7$ |
| 15) ____ $-3(4 - x) + 4x = 2(4 + x)$ | 16) ____ $2.24x - 33.52 = 8.91x$ |
| 17) ____ $3.2x - 4.9 = 8.4x + 6.7$ | No question in this space. |

ANSWER TO QUESTION

 1 12 16 6 2 7 12 11 3 5 6 7

 15 14 3 7 14 17 4 10 14 1 15 12 8 7