SmartMathz

Solving Equations

Grade 5 Algebra Worksheet

Date:_____ Name:_____

LET'S MAKE LEARNING FUN

Choose the correct answer from the options provided.

1. Evaluate the following equation: $x - 7 = 9; \quad x = \boxed{}$

   a. 15
   b. 10
   c. 16
   d. 18

2. Evaluate the following equation: $r + 7 = 13; \quad r = \boxed{}$

   a. 6
   b. 7
   c. 8
   d. 9

3. Evaluate the following equation: $t + 5 = 12; \quad t = \boxed{}$

   a. 7
   b. 4
   c. 6
   d. 5

4. Evaluate the following equation: $11 - x = 4; \quad x = \boxed{}$

   a. 8
   b. 7
   c. 9
   d. 10

5. Evaluate the following equation: $15 + y = 23; \quad y = \boxed{}$

   a. 10
   b. 8
   c. 3
   d. 9

Solving Equations

Grade 5 Algebra Worksheet

1. Evaluate the following equation: $\quad x - 7 = 9; \quad x = \boxed{16}$

> **Workings:**
>
> $$\begin{aligned} x - 7 &= 9 \\ x - 7 + 7 &= 9 + 7 \\ \mathbf{x} &= \mathbf{16} \end{aligned}$$

2. Evaluate the following equation: $\quad r + 7 = 13; \quad r = \boxed{6}$

> **Workings:**
>
> $$\begin{aligned} r + 7 &= 13 \\ r + 7 - 7 &= 13 - 7 \\ \mathbf{r} &= \mathbf{6} \end{aligned}$$

3. Evaluate the following equation: $\quad t + 5 = 12; \quad t = \boxed{7}$

> **Workings:**
>
> $$\begin{aligned} t + 5 &= 12 \\ t + 5 - 5 &= 12 - 5 \\ \mathbf{t} &= \mathbf{7} \end{aligned}$$

4. Evaluate the following equation: $\quad 11 - x = 4; \quad x = \boxed{7}$

> **Workings:**
>
> $$\begin{aligned} 11 - x &= 4 \\ 11 - x + x &= 4 + x \\ 11 &= 4 + x \\ 11 - 4 &= 4 - 4 + x \\ 7 &= x \implies \mathbf{x = 7} \end{aligned}$$

5. Evaluate the following equation: $15 + y = 23;$ $y = \boxed{8}$

Workings:

$$15 + y = 23$$
$$15 - 15 + y = 23 - 15$$
$$\textcolor{red}{y = 8}$$

KEY TAKEAWAYS: A step-by-step method to solve this problem is to perform opposite mathematical operations that undo each other; addition and subtraction, multiplication and division.