Assumption College Ubonratchathani

English for Math 1

Name:..... Class:..... No. .....

A. Solving Equations using Equality Property of Addition and Multiplication

Example: Solve $\frac{x}{8} - 3 = 5$

Solution:

Step 1: Add 3 to both sides.

$$\frac{x}{8} - 3 + 3 = 5 + 3$$

$$\frac{x}{8} = 8$$

Step 2: Multiply both sides by 8:

$$\frac{x}{8} \times 8 = 8 \times 8$$

$x = 64$ ← answer

B. Solving Equations using Equality Property of Subtraction and Multiplication

Example: Solve $\frac{x}{2} + 1 = 5$

Solution:

Step 1: Subtract both sides by 1.

$$\frac{x}{2} + 1 - 1 = 5 - 1$$

$$\frac{x}{2} = 4$$

Step 2: Multiply both sides by 2:

$$\frac{x}{2} \times 2 = 4 \times 2$$

$x = 8$ ← answer

C. Solving Equations using Equality Property of Addition and Division

Example: Solve $4x - 3 = 5$

Solution:

Step 1: Add 3 to both sides.

$$4x - 3 + 3 = 5 + 3$$

$$4x = 8$$

Step 2: Divide both sides by 4:

$$\frac{4x}{4} = \frac{8}{4}$$

$x = 2$ ← answer

D. Solving Equations using Equality Property of Subtraction and Division

Example: Solve $2x + 1 = 5$

Solution:

Step 1: Subtract both sides by 1.

$$2x + 1 - 1 = 5 - 1$$

$$2x = 4$$

Step 2: Divide both sides by 2:

$$\frac{2x}{2} = \frac{4}{2}$$

$x = 2$ ← answer

Solve using Equality Property of Addition, Subtraction, Multiplication and Division.

1. $\frac{x}{4} - 3 = 9$

   a. 48 b. 58 c. 3 d. 38

2. $\frac{x}{3} + 7 = 13$

   a. 27 b. –18 c. 18 d. –27

3. $5x - 8 = 12$

a. 3 b. 4 c. –3 d. 5

4. $3x + 9 = 18$

a. –10 b. 11 c. 5 d. 3

5. $\frac{x}{6} + 1 = 4$

a. 18 b. 23 c. 30 d. 25

6. $\frac{x}{2} - 3 = 7$

a. 17 b. –20 c. 8 d. 20

7. $\frac{x}{5} + 1 = -2$

a. –5 b. –15 c. 15 d. –11

8. $\frac{x}{4} - 3 = -5$

a. 8 b. 17 c. –8 d. –17

9. $\frac{x}{6} + 1 = 10$

a. 54 b. 66 c. 59 d. –54

10. $\frac{x}{-3} - 4 = 6$

a. –22 b. –14 c. 30 d. –30

"Success seems to be connected with action. Successful people keep moving. They make mistakes, but they don't quit."

-- Conrad Hilton

("ความสำเร็จดูเหมือนจะเชื่อมโยงกับการกระทำ คนที่ประสบความสำเร็จยังคงเดินหน้าต่อไปทำผิดแต่ไม่เลิก")