

TWO-STEP RELAY

OBJECTIVE:

81502 To solve two-step equations with whole numbers

PREREQUISITE:

To solve one-step equations using whole numbers

MATERIALS NEEDED:

A list of two-step problems (A sample is given.)

INSTRUCTIONS TO THE TEACHER FOR CONDUCTING ACTIVITY:

1. Divide the class into teams with five members each.
2. The first team member writes the problem when it is dictated by the teacher. That person passes the paper to the next person.
3. The second team member works the first step of the problem and passes the paper on to the next person.
4. The third member works the next step of the problem and passes it to the fourth.
5. Team member number four solves the problem and passes the paper to team member 5.
6. This person checks the answer by substituting the answer found for the variable in the equation. After checking the answer, this person stands.
7. The first team to solve the problem correctly may either tell the correct answer or work the problem on the board in the same order that it was worked on the paper.

Example

1st person writes as dictated:	$7x - 14 = 49$
2nd person works first step	$7x - 14 + 14 = 49 + 14$
3rd person	$7x = 63$
4th person	$x = 9$
5th person checks	$(7 \times 9) - 14 = 63 - 14$ $= 49$

EXTENSION:

Have each student give a reason for that step.

TWO-STEP EQUATIONS

1. $2n - 1 = 15$

$n = 8$

2. $\frac{n}{2} + 7 = 12$

$n = 10$

3. $5s - 2 = 43$

$s = 9$

4. $\frac{t}{33} + 1 = 3$

$t = 66$

5. $6a + 3 = 21$

$a = 3$

6. $6x - 9 = 3$

$x = 2$

7. $\frac{2c}{5} + 32 = 54$

$c = 55$

8. $\frac{5a}{7} = 10$

$a = 14$

9. $36 = 4a/3$

$a = 27$

10. $12b + 14 = 218$

$b = 17$

11. $\frac{c}{4} + 13 = 27$

$c = 56$

12. $8d - 35 = 189$

$d = 28$

13. $67g - 865 = 2022$

$g = 41$

14. $9b - 37 = 26$

$b = 7$

15. $7b - 8 = 34$

$b = 6$