

SOLVING 1-STEP ADDITION & SUBTRACTION EQUATIONS

OBJECTIVE: TO ISOLATE THE VARIABLE BY "UNDOING" THAT WHICH IS BEING DONE TO IT.

THESE HAVE 3 PARTS TO THEM:

- SOLVE
- DO/UNDO
- CHECK

WHAT ARE WE DOING TO THE VARIABLE?

HOW DO WE UNDO THAT?

Ex:)

SOLVE.

$$\begin{array}{r} x + 5 = 2 \\ -5 \quad -5 \\ \hline x = -3 \end{array}$$

| DO | UNDO |
|-----|------|
| + 5 | - 5 |

CHECK

$$\begin{aligned} x + 5 &= 2 \\ (-3) + 5 &= 2 \\ 2 &= 2 \quad \text{☺} \end{aligned}$$

Ex:)

$$\begin{array}{r} n - 11 = -5 \\ +11 \quad +11 \\ \hline n = 6 \end{array}$$

| DO | UNDO |
|------|------|
| - 11 | + 11 |

CHECK

$$\begin{aligned} n - 11 &= -5 \\ (6) - 11 &= -5 \\ -5 &= -5 \quad \text{☺} \end{aligned}$$

Ex:)

$$\begin{array}{r} p - 8 = 15 \\ +8 \quad +8 \\ \hline p = 23 \end{array}$$

| DO | UNDO |
|-----|------|
| - 8 | + 8 |

CHECK

$$\begin{aligned} p - 8 &= 15 \\ (23) - 8 &= 15 \\ 15 &= 15 \quad \text{☺} \end{aligned}$$

Ex:)

$$\begin{array}{r} z - (-3) = 8 \\ z + 3 = 8 \\ -3 \quad -3 \\ \hline z = 5 \end{array}$$

| DO | UNDO |
|-----|------|
| + 3 | - 3 |

CHECK

$$\begin{aligned} z - (-3) &= 8 \\ (5) + 3 &= 8 \\ 8 &= 8 \quad \text{☺} \end{aligned}$$