

SOLVING 2-STEP EQUATIONS

EACH POUCH HOLDS THE SAME UNKNOWN # OF COINS. HOW MANY COINS ARE IN 1 POUCH?

$$\begin{array}{c}
 \text{X} \\
 \text{X} \\
 \text{X}
 \end{array}
 +
 \begin{array}{c}
 \text{X} \\
 \text{X} \\
 \text{X} \\
 \text{X} \\
 \text{X}
 \end{array}
 =
 \begin{array}{c}
 \text{O O O O O} \\
 \text{O O O O O} \\
 \text{O O O O O}
 \end{array}
 \times 5 \text{ COINS PER POUCH}$$

$$\begin{array}{r}
 3x + 4 = 19 \\
 \underline{-4} \quad \underline{-4} \\
 3x = 15 \\
 \underline{\div 3} \quad \underline{\div 3} \\
 x = 5
 \end{array}$$

DO	UNDO
$\times 3$	$-4 \checkmark$
$+ 4$	$\div 3 \checkmark$

$$x = 5$$

Ex:

$$\begin{array}{r}
 -9x + 1 = -80 \\
 \underline{-1} \quad \underline{-1} \\
 -9x = -81 \\
 \underline{\div -9} \quad \underline{\div -9} \\
 x = 9
 \end{array}$$

DO	UNDO
$\times (-9)$	$-1 \checkmark$
$+ 1$	$\div (-9) \checkmark$

$$x = 9$$

Ex:

$$\begin{array}{r}
 -15 = -4m + 5 \\
 \underline{-5} \quad \underline{-5} \\
 -20 = -4m \\
 \underline{\div -4} \quad \underline{\div -4} \\
 5 = m
 \end{array}$$

DO	UNDO
$\times (-4)$	$-5 \checkmark$
$+ 5$	$\div (-4) \checkmark$

$$5 = m$$

COEFFICIENT $m = 5$ CONSTANT

Ex:

$$\begin{array}{r}
 8n + 7 = 31 \\
 \underline{-7} \quad \underline{-7} \\
 8n = 24 \\
 \underline{\div 8} \quad \underline{\div 8} \\
 n = 3
 \end{array}$$

DO	UNDO
$\times 8$	$-7 \checkmark$
$+ 7$	$\div 8 \checkmark$

$$n = 3$$

THE 5-STEP SOLVING PROCESS

- DISTRIBUTE
- COMBINE LIKE TERMS
- MOVE THE VARIABLE TO 1
SIDE OF THE EQUATION
- MOVE THE CONSTANT
- MOVE THE COEFFICIENT