

2.3 Writing 2-step equations

3 STEPS

- ① WORDS → describe the situation
→ use only important information
- ↓
- ② VARIABLE → define a variable to represent unknown quantity
- ↓
- ③ EQUATION → translate your verbal model into an algebraic equation.

EXAMPLE

① \$15 per week, start w/ \$400, total \$700

② # of weeks w

$$\begin{array}{r|l}
 \$400 + 15w & \$700 \\
 -400 & -400 \\
 \hline
 15w & 300 \\
 \underline{15} & \underline{15} \\
 w = 20 &
 \end{array}$$

$$\begin{array}{r}
 \$20 \\
 \hline
 15 \overline{) 300} \\
 \underline{30} \\
 0
 \end{array}$$

EXAMPLE

Eight less than (three times) a number is -23.



less than
more than } Reversals

$$3x - 8 = -23$$