



NAME _____ DATE _____

NUMBER BONDS AND ARROW WAY METHODS

Add or subtract the following expressions using number bonds and arrow way methods.

a) $67 - 40 = \underline{\quad}$.

Number bond:

$$\begin{array}{c}
 67 - 40 = \underline{\quad} \\
 \swarrow \quad \searrow \\
 60 \qquad \qquad
 \end{array}$$

$60 - 40 = \underline{\quad}$.

$20 + \underline{\quad} = 27$

Arrow way:

$$67 \xrightarrow{+10} \underline{\quad} \xrightarrow{\quad} \underline{47} \xrightarrow{+10} \underline{\quad} \xrightarrow{\quad} \underline{27}$$

b) $85 - 50 = \underline{\quad}$.

Number bond:

$$\begin{array}{c}
 85 - 50 = \underline{\quad} \\
 \swarrow \quad \searrow \\
 80 \qquad \qquad
 \end{array}$$

$80 - 50 = \underline{\quad}$.

$30 + 5 = \underline{\quad}$.

Arrow way:

$$\begin{array}{ccccccc}
 85 & \xrightarrow{-10} & \underline{\quad} & \xrightarrow{-10} & \underline{\quad} & \xrightarrow{-10} & \underline{\quad} & \xrightarrow{-10} & \underline{\quad} \\
 & & & & & & & & \\
 & & & & & & & & \underline{\quad} \xrightarrow{-10} \underline{\quad}
 \end{array}$$

c) $22 + 20 = \underline{\quad}$.

Number bond:

$$\begin{array}{c}
 22 + 20 = \underline{\quad} \\
 \swarrow \quad \searrow \\
 20 \qquad \qquad
 \end{array}$$

$20 + 20 = \underline{\quad}$.

$40 + \underline{\quad} = 42$

Arrow way:

$$22 \xrightarrow{+10} \underline{\quad} \xrightarrow{+10} \underline{\quad}$$