

Learning Goal:

By the end of this lesson I will be able to add single and (small) double digit, positive numbers together WITHOUT the use of a calculator or other technology.

Example Strategies: Find the **sum** (add together) of the following: $7 + 9$

Draw a Picture/Diagram/Model

$$\begin{array}{r} 7 \quad + \quad 9 \\ \text{***** **} \quad + \quad \text{***** *****} \end{array}$$

(borrow 1 from the seven group and add it to the nine group)

$$\begin{array}{r} \text{***** *}_- \quad + \quad \text{***** *****}_- \\ \hline \end{array}$$

(three groups of 5 and 1 more) $5 + 5 + 5 + 1 = 16$

Break Down (make friendly number groups)

$$\begin{array}{r} 7 \quad + \quad 9 \\ = 5 + 2 \quad + \quad 5 + 4 \end{array}$$

$$= 5 + 1 \quad + \quad 5 + 4 + 1$$

$$= 5 + 1 \quad + \quad 5 + 5$$

$$= \mathbf{16}$$

Skills Practice: Use the strategy you like best and find the **sum** (add together) of the following:

(a) $4 + 8$

(b) $3 + 8 + 6$

(c) $9 + 8$

(d) $6 + 3 + 7$

(e) $13 + 6$

(f) $12 + 9$

(g) $13 + 5 + 7$

(h) $9 + 14 + 9$

(i) $15 + 13 + 19$