

Addition Strategies:

Adding Doubles & Doubles Plus One

DOUBLE FACTS

| | | |
|------------------|------------------|--------------------|
| $1 + 1 = 2$ | $3 + 3 = 6$ | $5 + 5 = 10$ |
| $2 + 2 = 4$ | $4 + 4 = 8$ | |
| $6 + 6 = 12$ | $8 + 8 = 16$ | $10 + 10 = 20$ |
| $7 + 7 = 14$ | $9 + 9 = 18$ | |

Ten Partners

| | |
|----------------------|--------------------|
| | |
| $0 + 10$ or $10 + 0$ | $1 + 9$ or $9 + 1$ |
| | |
| $2 + 8$ or $8 + 2$ | $3 + 7$ or $7 + 3$ |
| | |
| $4 + 6$ or $6 + 4$ | $5 + 5$ |

Make Ten

$$7 + 5 = \underline{\quad}$$

$$\begin{array}{r} 7 + 3 = 10 \\ + 5 - 3 = 2 \\ \hline 12 \end{array}$$

Terms in Addition:

The numbers that are added together are called **ADDENDS** and the result is called the **SUM**. Together, **ADDENDS** and **SUMS** are called an **ADDITION SENTENCE**.

Addition Properties:

ADDITIVE IDENTITY PROPERTY: Anything plus zero equals itself. $A + 0 = A$

COMMUTATIVE PROPERTY OF ADDITION: The order of the addends can change but the sum stays the same. $A + B = B + A$

ASSOCIATIVE PROPERTY: When three or more number are added, the sum is the same regardless of the grouping of the addends. $(A + B) + C = A + (B + C)$

Balance of Equations:

Each of the equations equals the same sum.
For example: To find the sum of 6 there are 4 combinations.

$$\begin{array}{l} 0 + 6 = 6 \text{ and } 6 + 0 = 6 \\ 1 + 5 = 6 \text{ and } 5 + 1 = 6 \\ 2 + 4 = 6 \text{ and } 4 + 2 = 6 \\ 3 + 3 = 6 \end{array}$$

Estimate Sums:

Circle the place.
Underline to the right one space.
Zero to four, just ignore; five and above, give it a shove.
Flex your muscles like a hero; digits to the right turn to zero.

$$\begin{array}{r} \textcircled{4}52 \rightarrow 500 \\ + \underline{3}15 \rightarrow +300 \\ \hline ? \quad \quad \quad 800 \end{array}$$

TRUST Method:

- Target the question (circle it)
- Reread the word problem
- Underline the important words
- Solve the problem
- Talk it over

+ ADDITION KEY WORDS +

| | | |
|--------|------------|------|
| In All | Altogether | Join |
| Both | Total | Sum |