



Name \_\_\_\_\_

**Mental Math Strategies****2-11**

Add or subtract by breaking apart the numbers in the problems.

$46 + 38 = \square$

$40 + 30 = 70$  Add the tens in both numbers.

$6 + 8 = 14$  Add the ones in both numbers.

$70 + 14 = 84$  Add the sums of tens and ones.

So,  $46 + 38 = 84$ .

$847 - 323 = \square$

$800 - 300 = 500$

Subtract the hundreds in both numbers.

$40 - 20 = 20$

Subtract the tens in both numbers.

$7 - 3 = 4$

Subtract the ones in both numbers.

$500 + 20 + 4 = 524$  Add the sums.

So,  $847 - 323 = 524$ .

Add or subtract by using compensation.

$167 + 97 = \square$

$167 + 100 = 267$  Add 3 to 97 to make 100.

$267 - 3 = 264$  Subtract 3 from the sum to compensate for adding 3.

So,  $167 + 97 = 264$ .

$62 - 47 = \square$

$62 - 50 = 12$  Add 3 to 47 to make 50.

$12 + 3 = 15$  Add 3 to the difference to compensate for adding 3 more.

So,  $62 - 47 = 15$ .

Add or subtract mentally. Use breaking apart.

1.  $\begin{array}{r} 39 \\ + 28 \\ \hline \end{array}$

2.  $\begin{array}{r} 47 \\ + 39 \\ \hline \end{array}$

3.  $\begin{array}{r} 69 \\ - 32 \\ \hline \end{array}$

4.  $\begin{array}{r} 349 \\ - 218 \\ \hline \end{array}$

5.  $\begin{array}{r} 832 \\ - 411 \\ \hline \end{array}$

6.  $849 + 130 = \underline{\hspace{2cm}}$

7.  $362 - 105 = \underline{\hspace{2cm}}$

8.  $486 + 363 = \underline{\hspace{2cm}}$

9.  $314 + 129 = \underline{\hspace{2cm}}$

10.  $437 + 280 = \underline{\hspace{2cm}}$

11.  $739 - 420 = \underline{\hspace{2cm}}$

Add or subtract mentally. Use compensation.

12.  $49 + 28 = \underline{\hspace{2cm}}$

13.  $58 - 23 = \underline{\hspace{2cm}}$

14.  $78 + 40 = \underline{\hspace{2cm}}$

15.  $90 - 29 = \underline{\hspace{2cm}}$

16.  $439 + 396 = \underline{\hspace{2cm}}$

17.  $625 - 299 = \underline{\hspace{2cm}}$