



Name _____

Mental Math: Using Compatible Numbers and Compensation**R 2-2**

It's easier to add and subtract mentally using compatible numbers.

Find $51 + 17 + 19$.

Look for compatible numbers.

Add these numbers first.

$$\begin{array}{r} \boxed{51} + 17 + 19 = 70 + 17 \\ \downarrow \qquad \downarrow \\ 51 + 17 + 19 = 70 + 17 \\ = 87 \end{array}$$

Sometimes it's easier to use compensation. Change one number to make it easier to add or subtract. Then adjust the other number.

$$\begin{array}{rcccl} 28 & \text{add 2} & & 30 \\ + 13 & \text{subtract 2 to adjust} & + 11 \\ \hline & & 41 & & \end{array}$$

$$\begin{array}{rcccl} 28 & \text{add 2} & & 30 \\ - 13 & \text{add 2 to adjust} & - 15 \\ \hline & & 15 & & \end{array}$$

Use mental math to find each sum or difference.

1. $88 + 56 =$ _____

2. $24 + 17 =$ _____

3. $73 - 29 =$ _____

4. $62 - 47 =$ _____

5. $46 + 49 =$ _____

6. $56 - 19 =$ _____

7. $62 + 47 + 8 =$ _____

8. $31 + 43 + 19 =$ _____

9. $16 + 44 + 9 =$ _____

10. $28 + 11 + 22 =$ _____

11. $7 + 10 + 33 =$ _____

12. $25 + 19 + 15 =$ _____

13. $18 + 37 + 33 =$ _____

14. $22 + 58 + 5 =$ _____

15. $9 + 64 + 46 =$ _____

16. $81 + 17 + 29 =$ _____