

Mental Math

There are several ways that you can add and subtract numbers mentally to solve a problem.

Commutative Property of Addition

You can add two numbers in any order.

$$15 + 27 = 27 + 15$$

Compatible numbers are numbers that are easy to compute mentally.

$$25 + 93 + 75$$

25 and 75 are compatible because they are easy to add.

$$\begin{aligned} 25 + 93 + 75 &= (25 + 75) + 93 \\ &= 100 + 93 = 193 \end{aligned}$$

Associative Property of Addition

You can change the groupings of addends.

$$17 + (13 + 10) = (17 + 13) + 10$$

With **compensation**, you adjust one number to make computations easier and compensate by changing the other number.

$$\begin{array}{r} 320 - 190 \\ + 10 \quad + 10 \\ \downarrow \quad \downarrow \\ 330 - 200 = 130 \end{array}$$

Add or subtract mentally.

1. $265 + 410 + 335 =$ _____
2. $885 - 155 =$ _____
3. $2,500 + 1,730 + 70 =$ _____
4. $1,467 - 397 =$ _____

5. **Number Sense** How many more strikeouts did Pitcher A have than Pitcher C?

6. How many strikeouts did Pitcher B and Pitcher E have altogether?

7. How many strikeouts were recorded by all five pitchers?

Strikeout Data

Pitcher	Number of Strikeouts
A	372
B	293
C	220
D	175
E	205