

Name: _____
Review Sheet for Ch. 2 Test

Commutative Property: numbers **switch** places and the answer is the same:

$$\begin{aligned} \text{Ex: } 2 + 4 &= 6 \\ 4 + 2 &= 6 \end{aligned}$$

Associative Property: numbers can be **grouped differently** and the answer is the same (**parentheses move, numbers do NOT move**)

$$\text{Ex: } (2 + 3) + 5 = 2 + (3 + 5)$$

Identity Property: **adding zero** to a number gives you that number (ADDING!)

$$\text{Ex: } 8 + 0 = 8$$

Subtraction Rule of Zero: subtracting zero from a number gives you that number or a number minus itself is zero (SUBTRACTING!)

$$\begin{aligned} \text{Ex: } 7 - 0 &= 7 \\ 9 - 9 &= 0 \end{aligned}$$

"**About**" means **estimate** in a word problem.

"**Estimate**" means round to the place value they tell you **FIRST**, then add or subtract the new numbers.

Ex: round to the nearest tens

$$\begin{array}{r} 67 \\ +53 \\ \hline \end{array}$$

To **check addition** problems, estimate to the highest place they both have.

$$\begin{array}{r} \text{Ex: } 1,735 \\ + 192 \\ \hline \end{array}$$

To **check subtraction** problems, add the difference (answer) to the subtrahend (2nd number) and get the minuend (first number).

$$\begin{array}{r} \text{Ex: } 892 \\ - 454 \\ \hline \end{array}$$