

Name \_\_\_\_\_

## Patterns in Grouping

1. Complete the pattern.

Expression	Result
$(2 + 3) + 4$	_____
$2 + (3 + 4)$	_____
$(5 + 6) + 2$	_____
$5 + (6 + 2)$	_____



What do you notice? \_\_\_\_\_

2. Look at the multiplication pattern.

Expression	Result
$(2 \times 4) \times 5$	_____
$2 \times (4 \times 5)$	_____
$(3 \times 5) \times 2$	_____
$3 \times (5 \times 2)$	_____

What pattern do you see? \_\_\_\_\_

3. Compute both and compare.

a)  $(8 + 5) + 2 =$  \_\_\_\_\_       $8 + (5 + 2) =$  \_\_\_\_\_      Are they equal? \_\_\_\_\_

b)  $(8 - 5) - 2 =$  \_\_\_\_\_       $8 - (5 - 2) =$  \_\_\_\_\_      Are they equal? \_\_\_\_\_

What can you tell about addition vs. subtraction?

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