

# WORKSHEET

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Grouping Symbols

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Use the order of operations to solve each of the following expressions:

**Example:**  $\{8 \times [(7 - 3) + (8 + 6) - 14]\}$

**Remember that:** Parentheses ( ), Brackets [ ], Braces { }

$$\begin{aligned} &= \{8 \times [(7 - 3) + (8 + 6) - 14]\} && \text{Parentheses must be solved first} \\ &= \{8 \times [4 + (8 + 6) - 14]\} && \text{Calculate the expression inside the parentheses on the left} \\ &= \{8 \times [4 + 14 - 14]\} && \text{Calculate the expression inside the parentheses on the right} \\ &= \{8 \times 4\} && \text{Calculate the expression inside the brackets from left to right} \\ &= 32 && \text{Calculate the expression inside the braces} \end{aligned}$$

**a)**  $[(11 - 9) + (87 + 1)] \times 4$

**b)  $28 \times [(8 - 1) + (10 + 7 - 10) - 14]$**

**c)  $5 \times \{[(3 \times 5 - 5) + (10 - 8) + 100]\}$**

**d)  $\{250 - [(19 - 17) \times (13 + 12)]\} \div 50$**

**e)  $130 \div \{[(50 \div 2) \times (18 \div 9 - 2) \times 52] + 1\}$**

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END OF WORKSHEET