

Topic: Order of Operations
Homework: Day 4

- 1) P
- 2) E
- 3) M ↔ D
- 4) A ↔ S

Directions: Evaluate the following Numerical Expression.

| <u>Evaluate the Expression:</u> | <u>Show your work</u> |
|---------------------------------|-----------------------|
| 1) $25 - 13 + 32$ | Answer: _____ |
| <u>Evaluate the Expression:</u> | <u>Show your work</u> |
| 2) $24 \div 4 + 4^2$ | Answer: _____ |

| <u>Evaluate the Expression:</u> | <u>Show your work</u> |
|---------------------------------|-----------------------|
| 3) $14(21) - 2^3$ | Answer: _____ |

| <u>Evaluate the Expression:</u> | <u>Show your work</u> |
|---------------------------------|-----------------------|
| 4) $16 - 13 + 48 \div 6$ | Answer: _____ |

Directions: Evaluate each expression.

| | |
|-----------------------------------|-------------------------------------|
| 5) $5 + 10 \div 5 \times 3 - 1$ | 6) $(5 + 10) \div 5 \times 3 - 1$ |
| Answer: _____ | Answer: _____ |
| 7) $5 + 10 \div (5 \times 3) - 1$ | 8) $(5 + 10) \div (5 \times 3) - 1$ |
| Answer: _____ | Answer: _____ |

9) Jose disagreed with your expression and answer. Review Jose's work and explain his error.

$$\begin{aligned}
 &20 \times 5 \div 2 \\
 &= 100 \div 2 \\
 &= 50 \\
 &\text{I need to read 50 pages each day.}
 \end{aligned}$$

10) Mercy evaluated the expression below. She said that she had gotten an answer of 56. Look over her answer and explain the error she made.

$$\begin{aligned}
 &3^2 + 12 \div (6 - 3) \times 8 \\
 &= 3^2 + 12 \div 3 \times 8 \\
 &= 9 + 12 \div 3 \times 8 \\
 &= 21 \div 3 \times 8 \\
 &= 7 \times 8 \\
 &= 56
 \end{aligned}$$

a) Directions: Explain the error that Mercy made when evaluating the expression.

b) Correct Mercy's work. State the appropriate solution below.

Solution: _____