

Homework Day 6: Order of Operations

- 1) Describe and correct the error

$$12 + 12 \div 4 \times 3$$

$$12 + 12 \div 12$$

$$12 + 1$$

$$13$$

The error is

_____ ,

The correct Solution:

- 2) Evaluate the following expressions:

a) $(8 - 5)^2 \cdot 3 - 8 \div 2$

b) $8 + (10 - 4) - 3^2$

c) $\frac{(2^2 + 1)}{5}$

d) $\frac{10^2 \div 4}{3 + 2}$

e) $(3 + 5)^2 \div 4 + 19$

f) $\frac{2(3 + 1)}{8}$

3) Explain the steps you would take to evaluate the expressions

$$3^2 + 12 \div (6 - 3) \times 8$$

STEP 1:

STEP 2:

STEP 3:

STEP 4:

STEP 5:

SOLUTION:

4) Match the expression with its value

EXPRESSION	VALUE
$2 \times (9 \times 5 + 3^2) + 4$	3
$(6 + 3)^2 + (9 - 10 \div 5)$	233
$(10 + 59 - 3^2) \div (24 - 4)$	112
$4 \times (12 \times 6 - 4^2) + 9$	218
$(19 - 8) \times (10 + 4) + 8^2$	88