

10/1/19

Be able to calculate using the order of operations.

(25)

$$2 + 3 \cdot 6 \stackrel{?}{=} 20$$

programmed with order of operations

correct

$$2 + 3 \cdot 6 \stackrel{?}{=} 30$$

typed into 2 different calculators

PEMDAS

Parenthesis / Groupings

Exponents

Multiplication

Division

Addition

Subtraction

left to right

left to right

PEMDAS

$$2(4+6)^2 - 9(-9)$$

4-3

$$2(10)^2 - 9(-9)$$

4-3

$$\frac{2(100)}{(4-3)} - 9(-9)$$

$$\frac{200}{1} - 9(-9)$$

$$200 - 9(-9)$$

$$200 + +81$$

$$281$$

✓✓✓
PEMDAS
→→

$$(5-8)^2 + \frac{10}{4-9}$$

$$(-3)^2 + \frac{10}{(4-9)}$$

$$(-3)^2 + \frac{10}{-5}$$

$$(-3)(-3)$$

$$9 + \frac{10}{-5}$$

$$9 + -2$$

$$7$$

✓✓
PEMDAS
→→

$$\frac{(12+4)}{(6-4)} + \frac{6^2}{9}$$

$$\frac{16}{2} + \frac{6^2}{9}$$

$$\frac{16}{2} + \frac{36}{9}$$

$$8 + 4$$

$$12$$