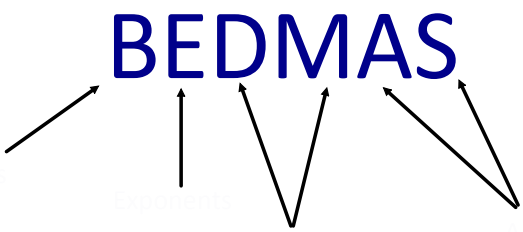
1.0 Order of Operations



Order Matters

Example 1: Evaluate. *(Simplify - answer should be one number.)*

a) $5 + 2 \times 3$

b) $(5 + 2) \times 3$

c) $5 + 2 \times 3^2$

d) $(5 + 2 \times 3)^2$

Communication:
- align equal signs vertically
- one equal sign per line

Example 2: Evaluate.

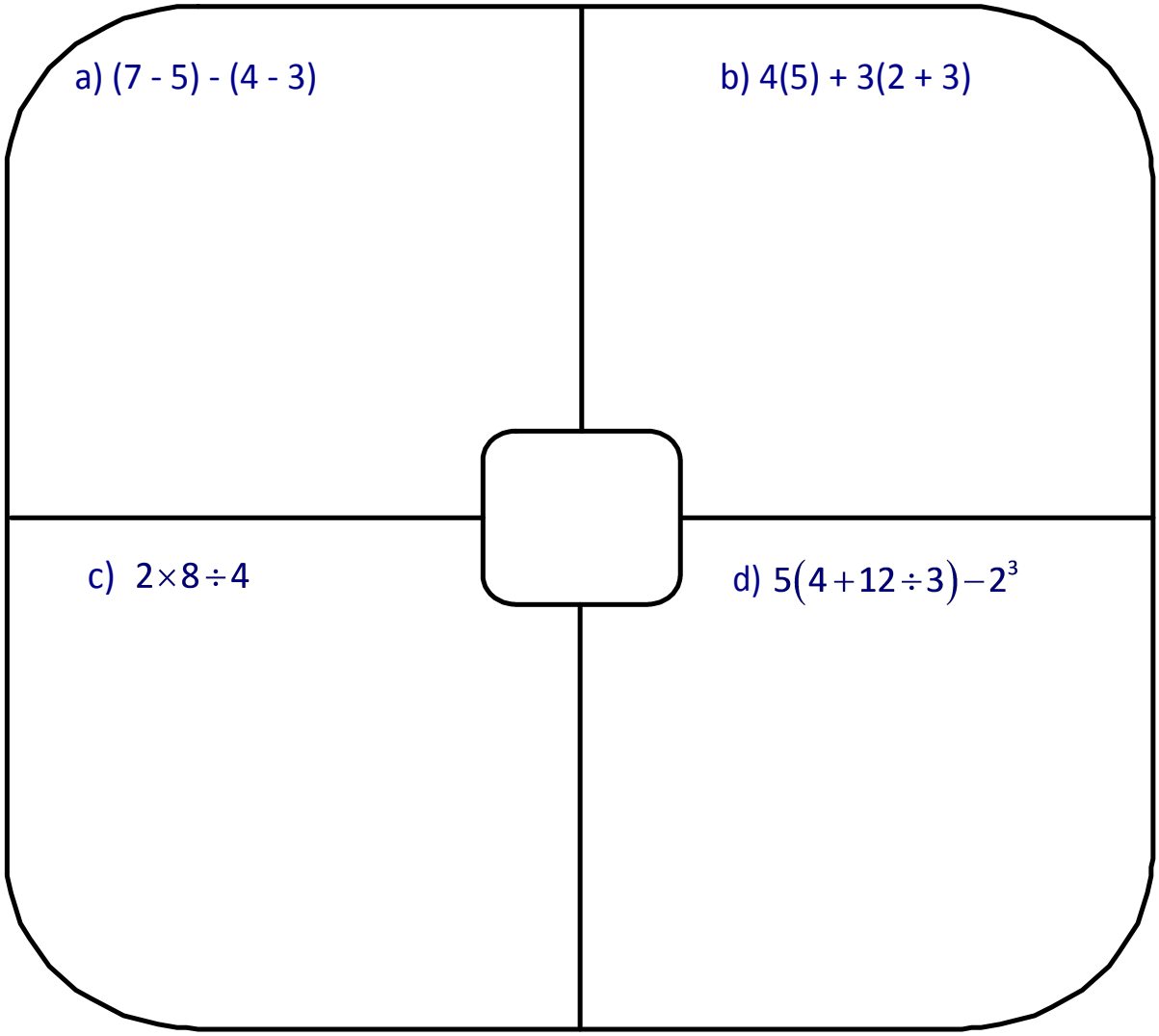
a) $5+7\left[12-5(2)\right]$

b) $\dfrac{4\cdot 6-(5-3)}{(10\div 2\cdot 4)\div 5}$

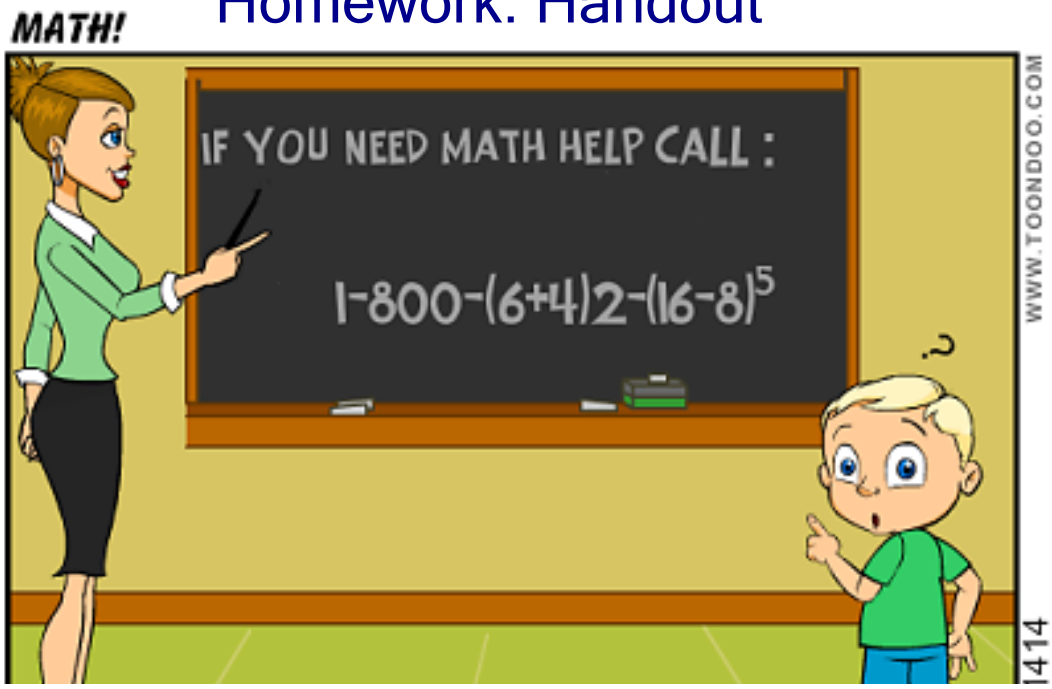
ALWAYS, ALWAYS, ALWAYS
SHOW ALL WORK!

Example 3: Evaluate each of the following.

Add all four answers to fill in the box in the middle.



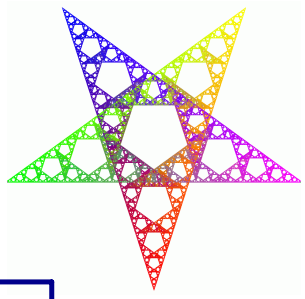
Homework: Handout

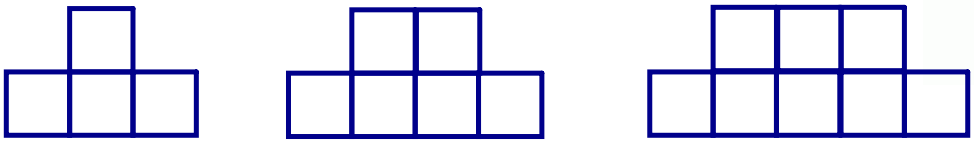


Order Of Operations

P E M D A S

Looking at Patterns





Step 1 Step 2 Step 3

- Sketch the 4th step.
- Sketch the 13th step.

Step	Units
1	
2	
3	
4	
13	
29	

- Write a rule for step *n*.
- Can you write the rule in another way?