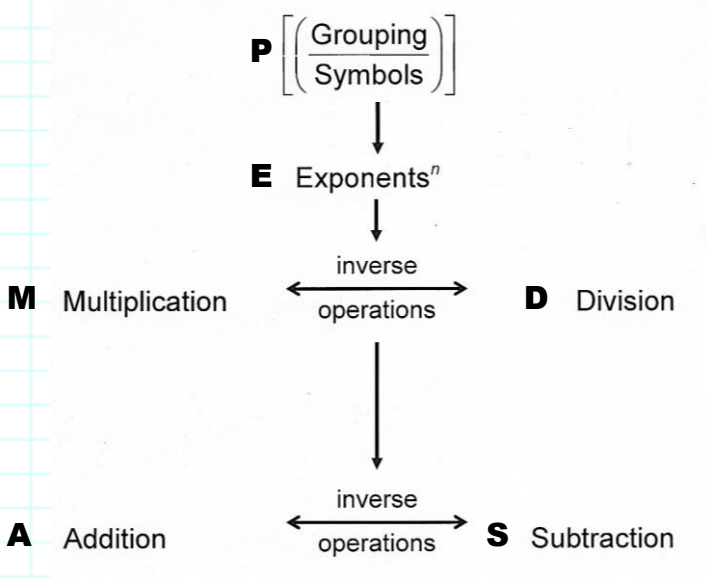
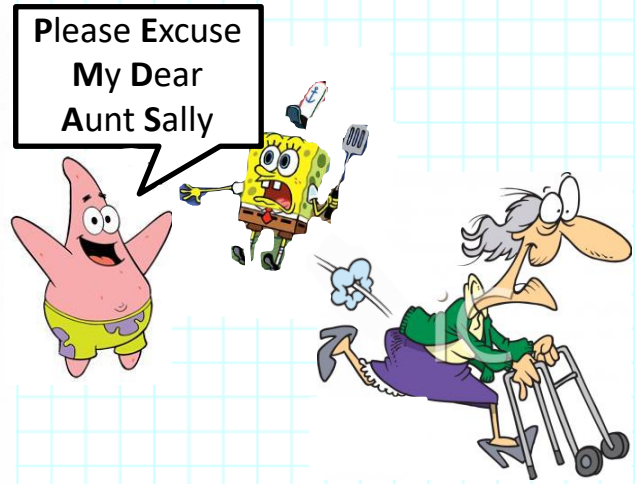
2.1
Order of Operations

NOTES

Name:_____

Order of operations -- PEMDAS





Terms: Terms are separated by addition and subtraction. We must follow order of operations because we can only combine like terms. That is why addition and subtraction occur last.

Apply order of operations to simplify the expressions below.

$30 \div 3+2\cdot 6$

$\sqrt{49}(-4+2)-1$

$\dfrac{-40}{(16-7\cdot 2)^2}+2\cdot 5$

$\dfrac{8+4}{\sqrt{36}}-11$

You want to buy 2 magazines and 3 greeting cards from the rack shown at the left. What is the total cost of the items?

Find two different ways to make a true statement by inserting +, −, ×, or ÷ into each blank.

$$32 \square 8 \square 4 \square 2 = 2$$

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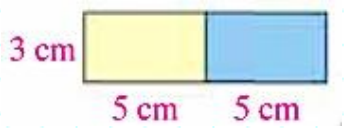
Write two expressions to find the total area of this figure. Then find the area.



You go with five friends to an amusement park. The tickets originally cost $36.50 each, but you receive a group discount. The total cost is $198. Write and solve a mathematical expression to determine the discount each person received.