

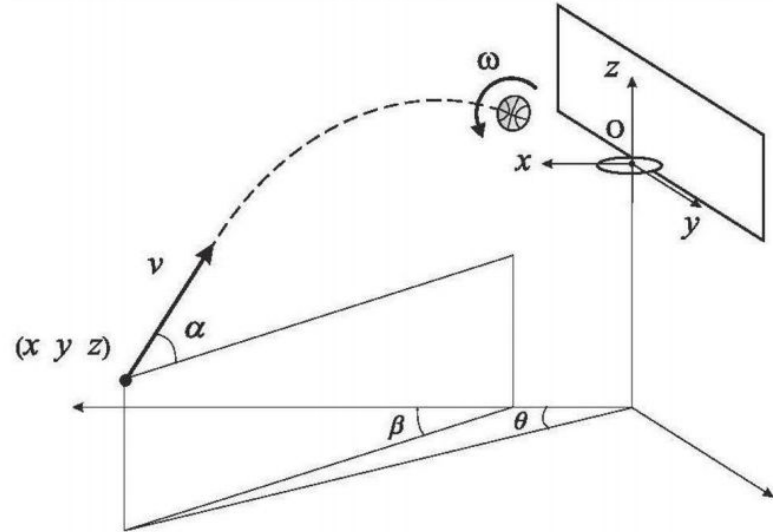
# Warm-Up

Find your new seat (look at the front board)

Pick up the article from the front of the room

## “The math behind the perfect free throw in basketball”

and begin reading.



# Homework Check

Please use this time to review your perfect squares before we begin the quiz.

# Quiz

A video player interface with a colorful, abstract, mosaic-like background. The background consists of overlapping, semi-transparent geometric shapes in various colors including yellow, orange, red, purple, and green. In the center of the player, the text "3:00" is displayed in a large, white, bold, sans-serif font with a black outline and a slight drop shadow. The video player has a black border at the top and bottom.

**3:00**

# Order of Operations and Evaluating Expressions

August 31, 2018

**Tell me what you know about Order of Operations**

Let's try a problem as a class...

$$5 \times 8 + 6 \div 6 - 12 \times 2$$

# Order of Operations Team Activity

Explain the rules.

**Each group should have one whiteboard and one marker.**



# Order of Operations Team Activity

$$2[(8-4)^5 \div 8]$$

# Order of Operations Team Activity

$$10 - (2^3 + 4) \div 3 - 1$$

# Order of Operations Team Activity

$$\frac{2[8+(67-2^6)^3]}{9}$$

# Order of Operations Team Activity

$$3[42-2(10^2-9^2)]$$

## Order of Operations Team Activity

Evaluate the expression for the given value of the variables.

$$3(s-t)^2; s=4, t=1$$

## Order of Operations Team Activity

Evaluate the expression for the given value of the variables.

$$3m^2-n; m=2, n=6$$

## Order of Operations Team Activity

Evaluate the expression for the given value of the variables.

$$2p^2 + (2q)^2; p=4, q=3$$

## Order of Operations Team Activity

Evaluate the expression for the given value of the variables.

$$\frac{3g+6}{h}$$

$$\text{for } g=5, h=7$$



## Wrap-Up

Write a tweet that explains the order of operations.  
Remember, tweets can only be 140 characters or less!

Note: Tweeting “PEMDAS” does not count.

# Homework

- Textbook page 14-15 #38, 40, 46-52 even, 56, 58, 60, 66, 68, 70
- Test coming on Friday