

# Exploring Big Numbers

What do you notice? What do you wonder?



Some information....

(a frame = 1 picture)

## **How many frames are in the average movie?**

### **3 Answers**

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Stephen Heleker, Writer/Director, MFA Directing student at UCLA

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In the U.S. the average feature film is 110 minutes long.\* Films are shown at 24 frames per second.

# Investigate....

- ***If a picture is worth a thousand words....***
  - How many pictures would be worth a million words?
  - How long of a movie would be worth a million words?
  - Assuming a TV commercial is 20 seconds, how many words would a commercial be worth?





# Counting Circles

How long would it take to draw a billion circles?

# Let's break it down....

- How many circles can you draw in a minute?
- Can you figure out how many circles you can draw in a day?
- How about how many circles in a year?

100 circles : minute

144,000 circles : day

1,000,000,000 would take 6944 days

19+ years with no sleep

Where would that go on a number line?





