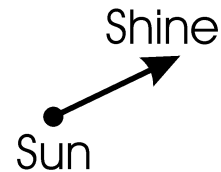
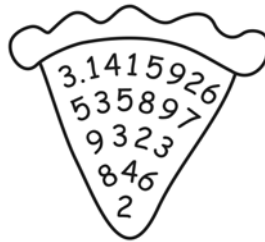


# MJ4MF FINAL EXAM

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

- Do one of the following:
  - Give a detailed proof of the classification of finite simple groups; or,
  - Write both your first and last name in uppercase letters on the NAME line above.
- Why is 6 afraid of 7?
- Which months have 28 days?
- What do you call 3 feet of trash?
- Take five times *which* plus half of *what*,  
And make the square of what you've got.  
Divide by one-and-thirty squared,  
To get just four — that's right, it's there.  
Now two more points I must impress:  
Both *which* and *what* are fractionless,  
And *what* less *which* is not a lot:  
Just two or three. So now, what's *what*?
- What is the product of  $(x - a)(x - b)(x - c) \dots (x - y)(x - z)$ ?
- How much wood could a woodchuck chuck, if a woodchuck could chuck wood?
- Identify each of the objects below.



- Identify the three mistakes:

This sine contains  
threee errors.

Provide accurate conversions for each of the following.

10.  $10^{12}$  bulls = \_\_\_\_\_

11. 2 paradigms = \_\_\_\_\_

12.  $10^{-12}$  boos = \_\_\_\_\_

13. 2000 mockingbirds = \_\_\_\_\_

14. Match each word on the left with its definition on the right.

Arc      What mathematicians sleep on

Binary      Two MD's

Matrices      A canary with two heads

Paradox      What the pirate said when his bird flew away

Polar Bear      That which Noah built

Polygon      A rectangular bear after a coordinate transformation

### True or False

15. According to the four-color theorem, any map can be colored with three (or fewer) colors. \_\_\_\_\_

16. Pi is irrational but well-rounded. \_\_\_\_\_

17. Most people have more than the average number of arms. \_\_\_\_\_

18. This question is false. \_\_\_\_\_