1. Proving statements

Implications

This time we're exploring mathematical writing and getting introduced to proofs. This means that we are going to be working with **contrapositives** and **implications** some more in order to prove statements. To work with a statement, we turn it into an implication that we can work with mathematically.

Example: For every positive even integer n, $n+1$ is odd.
Changing to an "if, then" statement, we can form:
If a positive integer n is even, then $n+1$ is odd.

Question 1
Rewrite the following statements as "if, then" statements:

a. When a positive integer n is odd, then $n+1$ is even.

if n is odd, then $n+1$ is even.

b. All squares have four equal sides.

Hint
Think of representing the square as a variable, and the length of a side as a variable.

If s is a square, then the length of every side is l.

c. asdf

Team: Please write down all people in your team.

1. 2.
3. 4.

Grading

Question	Weight	0-4	Adjusted score
1	5%		
2	6%		
3	12%		
4	15%		
5	25%		