

If your name starts with the letter M,	then	your last name is Awan.
If your last name is not Zimmers,	then	your last name is Islam.
If you are over 6 feet tall,	then	you don't like winter.

CONDITIONALS

An if-then statement consisting of a hypothesis and a conclusion.

If hypothesis, then conclusion.

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If	T	then	T	=	T
If	T	then	F	=	F
If	F	then	T	=	T
If	F	then	F	=	T

Determine the truth value of the following statements:

1. If a polygon has three sides, then it is a triangle.

T T

True

2. If a polygon has 4 congruent sides, then it is a square.

T F

False

3. If a triangle has 4 sides, then it will grow hair.

F

True

It could be a rhombus

NEGATION (opposite) 'not'

Your last name is Awan.

Your last name is not Awan

Your last name is not Zimmers.

Your last name is Zimmers

You are over 6 feet tall.

You are not over 6 ft tall

You don't like winter.

You do like winter.

Find the negation of the following statements and determine the truth value of the negation.

1. The medians in a triangle are concurrent.

The medians in a Δ are not concurrent.
False.

2. One is a prime number.

One is not a prime #.
True

Come up with four different conditionals that represent all of the following scenarios:

①

If true, then true.

②

If true, then false.

③

If false, then true.

④

If false, then false.

