

Name: _____ Period: _____ Date: _____

Proofs with Uno Assignment

Part 1

Using the techniques discussed in class. Prove each problem by using some or all of the cards mentioned in the problem. Complete a two-column proof for each exercise, with statements and reasons in the columns. A reason is needed for each statement. The final statement will be the item being proved.

Example:

Given: Yellow 4

In your hand you have Red 4, Blue Draw 2, Blue Skip, Green Skip and Green 4.

Prove: Blue Draw 2

Statement	Reason
Yellow 4	Given
Green 4	Same Number
Green Skip	Same Color
Blue Skip	Same Symbol
Blue Draw 2	Same Color

All cards could have been played with an additional step by starting the proof with the Red 4.

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1) **Given:** Green Draw 2

In your hand you have Yellow 8, Blue 6, Red Skip and Green Skip.

Prove: Red 4

Statement	Reason
Green Draw 2	Given
Green Skip	Same Color
Red Skip	Same Symbol
Red 4	Same Color

2) **Given:** Red Draw 2

In your hand you have Red 8, Yellow 9, Green 9, Green 6, Blue 8, Blue Draw 2 and Red 4

Prove: Yellow 4

Statement	Reason
Red Draw 2	Given
Red 8	Same Color
Red 4	Same Color
Yellow 4	Same Number

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3) **Given:** Blue 6

You have in your hand Green Reverse, Blue Reverse and a Wild Card.

Prove: Red 7

Statement	Reason
Blue 6	Given
Blue Reverse	Same Color
Green Reverse	Same Symbol
Wild Card	Change Color
Red 7	Same Color

4) **Given:** Yellow Draw 2

In your hand you have Green 6, Red 6, Red Reverse, Red Draw 2 and Yellow 6.

Prove: Green 7

Statement	Reason
Yellow Draw 2	Given
Red Draw 2	Same Symbol
Red 6	Same Color
Green 6	Same Number
Green 7	Same Color

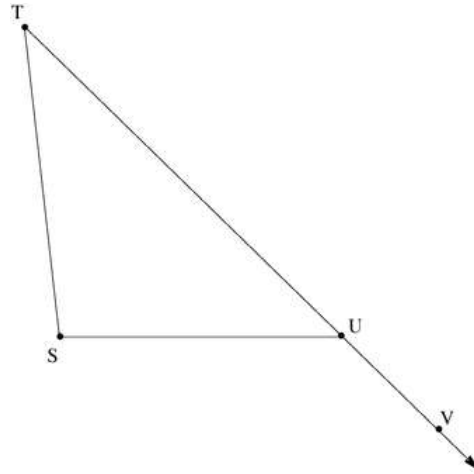
Proofs with Uno Assignment

Part 2

Given: $m\angle T = 30$

$m\angle VUS = 135$

Prove: $m\angle S = 105$



Statement	Reason
$m\angle T = 30$	Given
$m\angle VUS = 135$	Given
$m\angle TUS = 45$	Supplementary angles
$m\angle T + m\angle TUS + m\angle S = 180$	Sum of the measures of the angles of a triangle is 180.
$30 + 45 + m\angle S = 180$	Substitution
$m\angle S = 105$	Addition Property of Equality (Subtract 75° from each side)