Name	Name:	Date:
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The Mystery of Mary Celeste

Read through the handout then think about the following questions:

1. What information is the most significant?

why - they escaped the pirates using the boats I hav. tools - missing documents are a

What are some explanations for the mystery?

· Pirate Theory

· Domestic

Struggles

3. Decide on an explanation and develop an argument to support it.

- use the life boats to escape

- navigation.

The original crew were wanted for something

4. What piece of evidence, currently missing, would further support your explanation?

Decide if you agree or disagree with the following:

1. When studying evidence or examples, the patterns you see will lead you to the correct conclusion. (True or False)

$$0.333333331 = 0.\overline{3}$$

2. Examining examples can help you discover patterns and make predictions. (True or False)

Inductive Reasoning - find example of evidence and build to a bigger

3. There is only one pattern that can be used to predict the next three terms after 1, 4, 9, 16, (True or False)

1. 4 9 16 25 36 49 1. +3 +5 +7 +9 +11 +13 add the next

2. +2 +2 -...

add two to the previous

Theory.

$3 - 1^2 2^2 3^2 4^2 5^6 6^6 7^2 difference.$
Definitions
Take a small number of comparable examples and draw a larger conclusion, or extend that conjecture pattern.
Conclusions drawn from incomplete information. 1, 4, 9, 10, 20
Example Make a conjecture for each of the situations below: a) Sunny days make people happy. It is a sunny day, Everyone is happy- b) An ambulance arrives at the school.
c) Doctors are smart. Suzy is a doctor. Suzy is smart d) One of these numbers doesn't belong: 2, 3, 4, 7, 11, 13, 17 - missing 5
The rest are prime (a number that only has 2 factors I and itself) iagram:
Complete the chart for the pattern above: Diagram 1 2 3 4 5 # small triangles 1 4 9 16 25
Define same size. Based on your observations above, how many triangles would be in the 10th diagram?

Example The next number in the sequence 1, 1, 2, 3, 5, 8, $\frac{13}{10}$, 21, ... is $\frac{1}{10}$ 1+1 = 2

Assignment

p. 12 #1, 3, 5, 9-12

1+2 = 3

2+3 = 5

3+5 = 8

Quiz Next Day!

Example What happens when you add two odd numbers together?

(2x+1)+(2y+1) = 2x+2y+2= 2(x+y+1)

Example Make two conjectures based on the information in the graph:

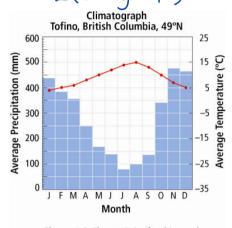


Figure 1.9 The statistics for this graph came from Tofino, British Columbia, which is in the temperate rainforest biome.

Assignment p. 12 #1, 3, 5, 9-12 Quiz Next Day!