

geometry honors 2nd semester 06-07

Wednesday, January 17, 2007

Ok, we ran out of time today because of the Curriculum Fair. Below, you will find the example problems I would have given you in class today along with my own made up practice problems.

Aim 1: to find the sum of the first "n" odd integers

Make your own term and value chart. Label the top row "# of odd integers". Label the bottom row "Sum". Then, calculate the sum by completing the following:

- 1
 $1+3=?$
 $1+3+5=?$
 $1+3+5+7=?$
 $1+3+5+7+9=?$

# of odd integers	1	2	3	4	5	n
Sum	1	4	9	?	?	?

Complete the conjecture:

The sum of the first n odd integers is ___?___

Practice Problems:

- Find the sum of the first 80 odd integers.
- Find the sum of the first 90 odd integers.
- Find the sum of the first 100 odd integers.
- $1+3+5+\dots+253=?$
- $1+3+5+\dots+987=?$
- $1+3+5+\dots+1269=?$
- $255+257+259+\dots+757=?$
- $339+341+343+\dots+887=?$
- $551+553+555+\dots+1111=?$

Aim 2: to find the sum of the first "n" even integers

Make your own term and value chart. Label the top row "# of even integers". Label the bottom row "Sum". Then, calculate the sum by completing the following:

- 2
 $2+4=?$
 $2+4+6=?$

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$$2+4+6+8=?$$

$$2+4+6+8+10=?$$

of even integers 1 2 3 4 5 n

Sum 2 6 ? ? ?

Complete the conjecture:

The sum of the first n even integers is ____? ____

Practice Problems:

10. Find the sum of the first 250 even integers.
11. Find the sum of the first 700 even integers.
12. Find the sum of the first 1000 even integers.
13. $2+4+6+\dots+500=?$
14. $2+4+6+\dots+1000=?$
15. $2+4+6+\dots+1600=?$
16. $450+452+454+\dots+988=?$
17. $234+236+238+\dots+1290=?$
18. $886+888+890+\dots+2000=?$

Aim 3: to find the sum of the first "n" consecutive integers

Complete your own term and value chart. Label the top row "# of consecutive integers". Label the bottom row "Sum". Then, calculate the sum by completing the following:

1

$$1+2=?$$

$$1+2+3=?$$

$$1+2+3+4=?$$

$$1+2+3+4+5=?$$

$$1+2+3+4+5+6=?$$

of consecutive integers 1 2 3 4 5 n

Sum 1 3 ? ? ?

Complete the conjecture:

The sum of the first n consecutive integers is ____? ____

Practice Problems:

19. Find the sum of the first 20 consecutive integers.
20. Find the sum of the first 100 consecutive integers.
21. Find the sum of the first 1600 consecutive integers.
22. $1+2+3+\dots+500=?$
23. $1+2+3+\dots+950=?$
24. $1+2+3+\dots+4280=?$
25. $450+451+452+\dots+921=?$
26. $263+264+265+\dots+900=?$
27. $567+568+569+\dots+789=?$
28. $678+679+680+\dots+1616=?$