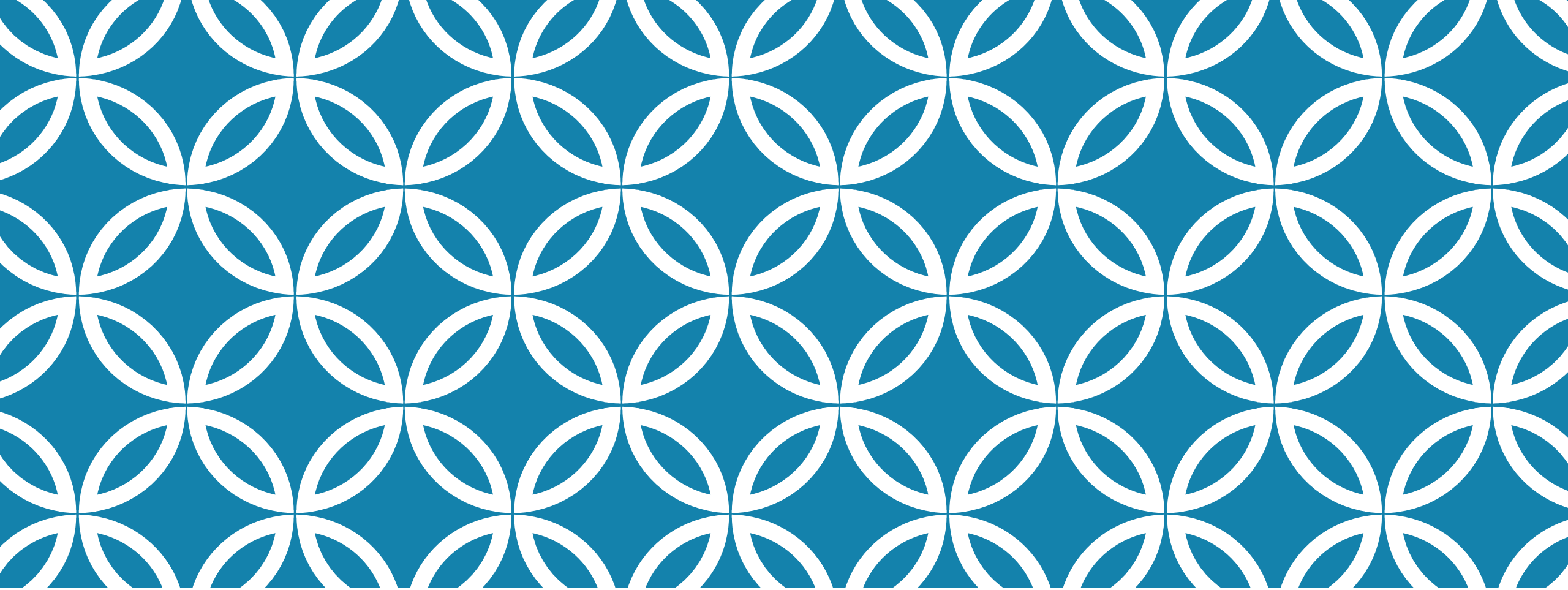


MATH ENRICHMENT PROGRAM

PROBLEM SOLVING

Day 1

WELCOME TO OUR 1ST MEETING.

- We will meet weekly and have fun looking at different mathematical situations !!
- No homework !!!
- We only ask that you honestly engage in the lesson, participate, verbalize your thoughts, and join the discussions.
- Every meeting we will have *5* quick MC *Check-in* Questions and *5* quick MC *Check-out* Questions.

These are NOT tests or quizzes but a way for us to measure the learning process. Just be honest and do your very best.

CHECK IN

1) what is the value of F(2)

A) 15

B) 25

C) 55

D) 6

x	F(x)
1	15
6	65
2	25
5	55

CHECK IN

2) If F(x) = 55 what is the value of x

A) 5

B) 0

C) 55

D) 6

x	F(x)
1	15
6	65
2	25
5	55

CHECK IN

3) Simplify the expression $X + 2X - 5 + 12 + 3X$

A) $3X - 17$

B) $3X + 7$

C) $6X + 7$

D) $6X + 7$

CHECK IN

4) f(x) $= \frac{x-3}{2}$, what is f(11)

A) 8

B) 2

C) 4

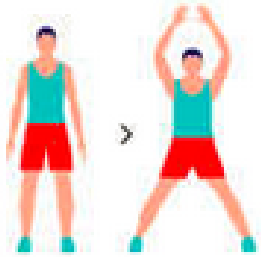
D) 7

CHECK IN

5) Fill in the blank,

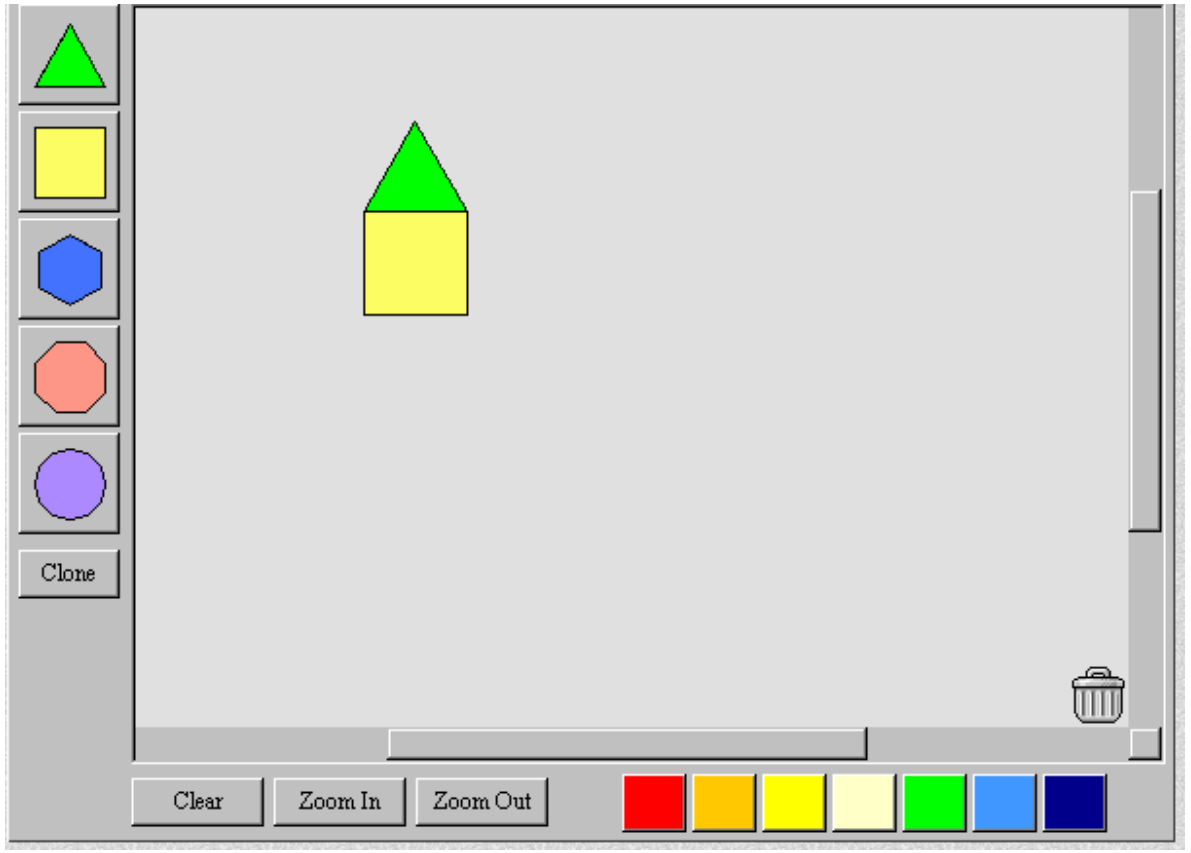
160, 80, 40, 20, 10, _____

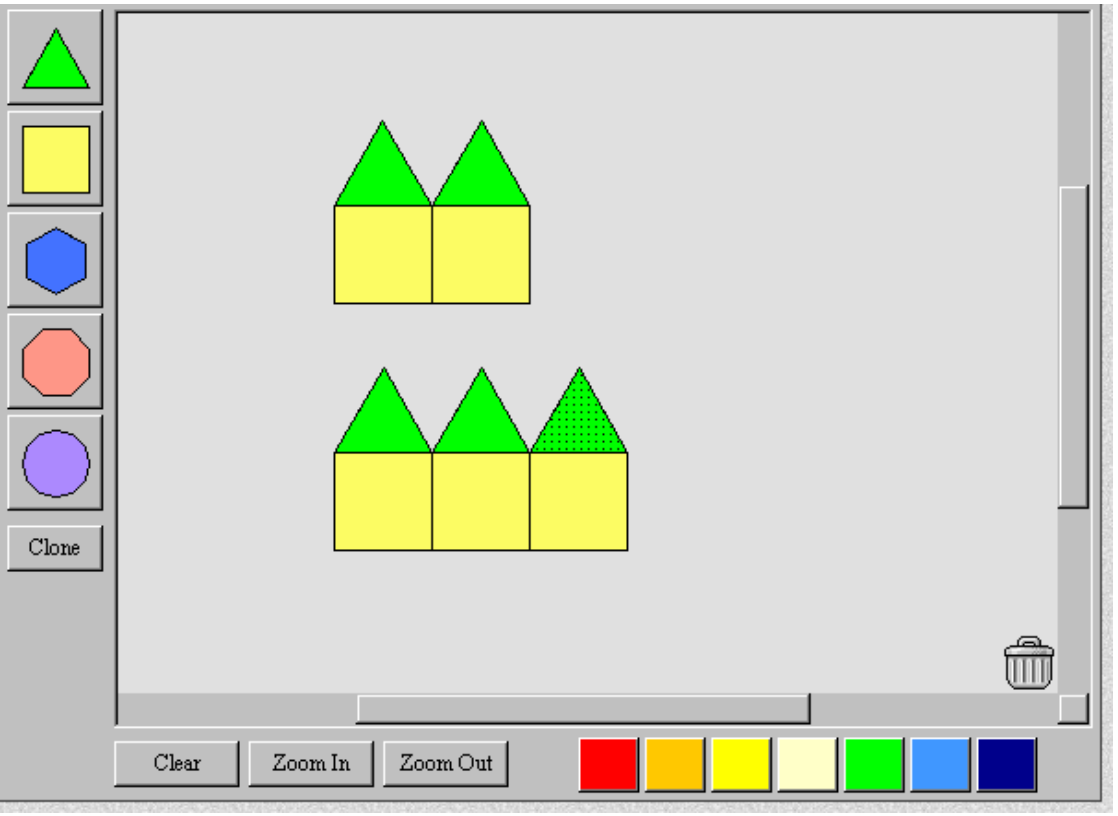
WARM UP



MAIN ACTIVITY- INTRODUCTION

http://nlvm.usu.edu/en/nav/frames_asid_163_g_4_t_3.html?open=activities&from=topic_t_3.html





LET'S FILL THE TABLE

Shape #	Triangular tiles	Square ties	Total # of Tiles
1	1	1	2
2	2	2	4
3	3	3	6
10			
52			
100			
n			

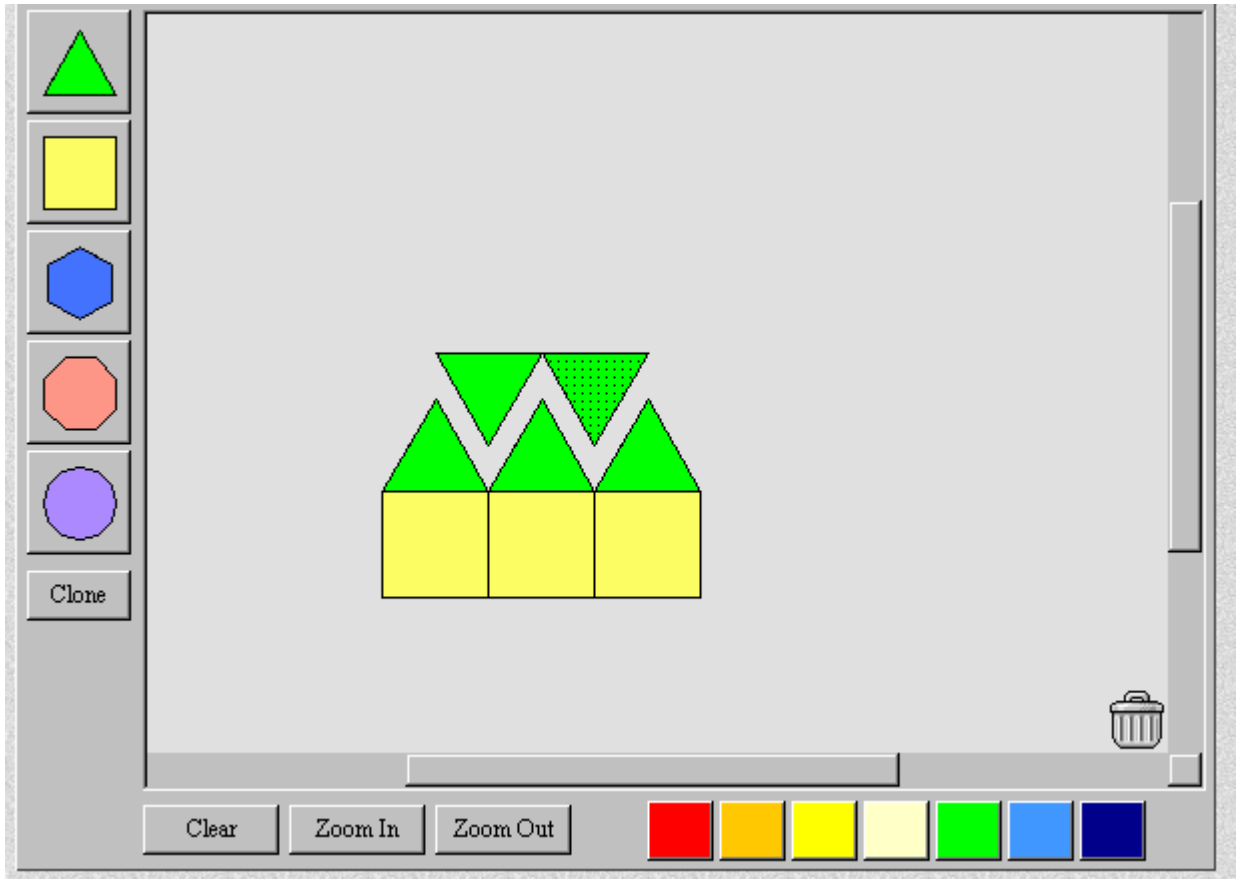
-How are you getting these numbers so fast? How do you know?
-so if we had a shape #n , can we predict its total number of tiles?
Coming up with a generalization

CLOSE THE ROOF- HOW MANY TOTAL TILES ARE NEEDED FOR SHAPE # 35

How can we organize our information?

Let's make a table

n	Triangular tiles	Square tiles	Total
1			
2			
3			
4			
5			
6			
7			



HOW MANY TOTAL TILES ARE NEEDED FOR SHAPE # N

- Do you see any patterns in the table? Share
- Can we predict for n = 100 ? , verbalize the rule you are using –
- Generalize the rule.

SUMMARY

Please write on the board

Write words you feel can represent some of what you did in this session?