

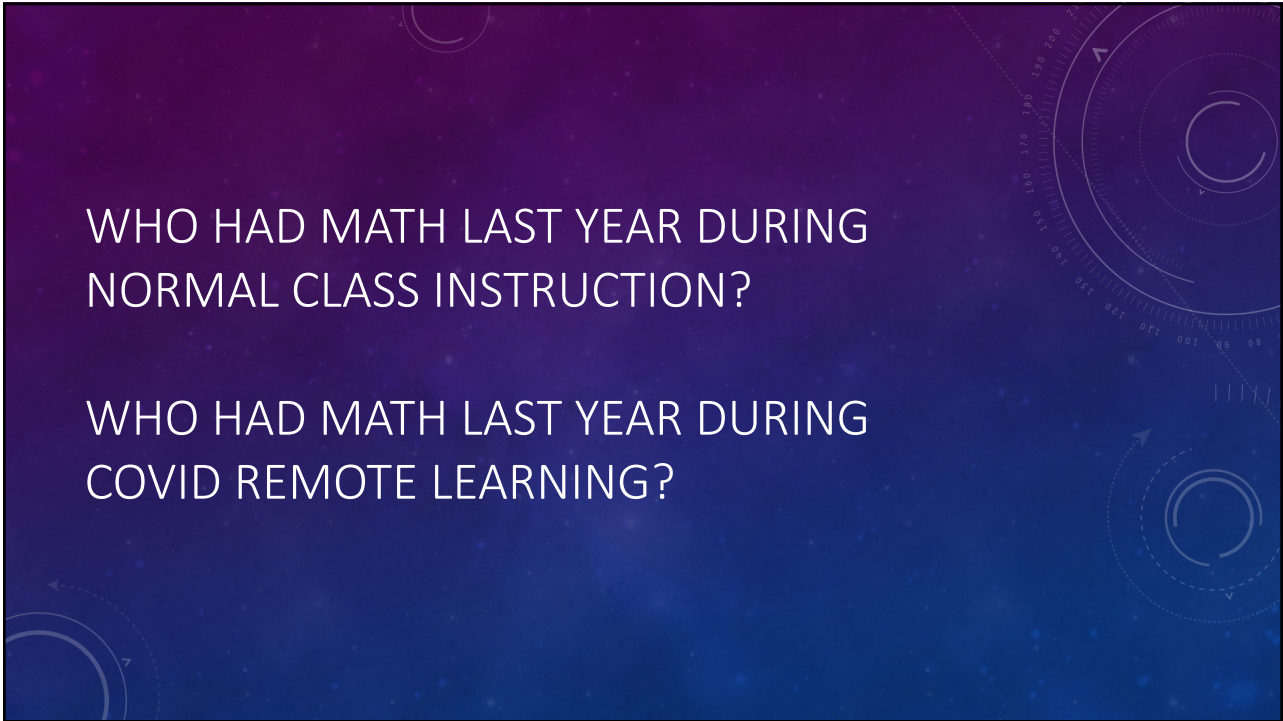
WELCOME TO  
FOUNDATIONS & PRE-CALCULUS 10  
& FOUNDATIONS OF MATH 11  
MR. OSTOFOROV (A.K.A. MR. O)

1

## AGENDA

- Introductions & Attendance
- Discussion
- Website & Resources
- Course Expectations
- Course Overview
- Activity
- Math Review & Discussion
- Parent & Student Letter

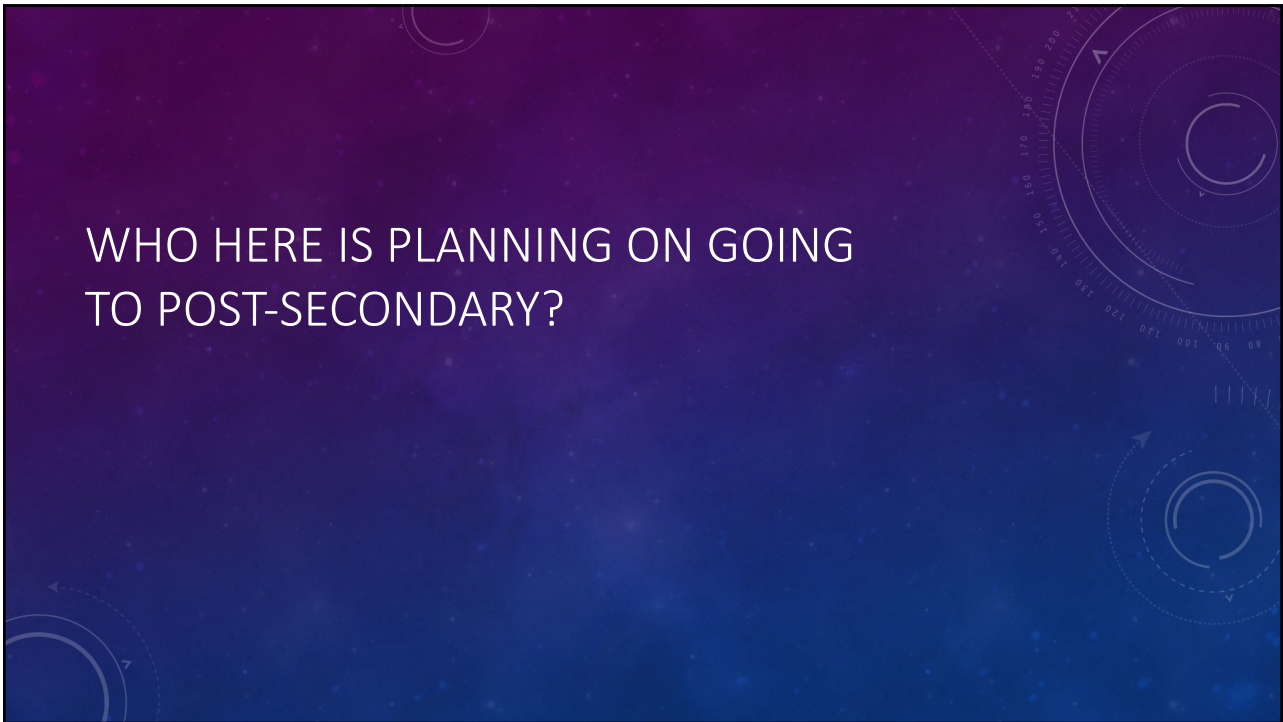
2



WHO HAD MATH LAST YEAR DURING  
NORMAL CLASS INSTRUCTION?

WHO HAD MATH LAST YEAR DURING  
COVID REMOTE LEARNING?

3



WHO HERE IS PLANNING ON GOING  
TO POST-SECONDARY?

4

## HOW WOULD YOU RATE YOUR MATH ABILITY RIGHT NOW?

**Take a moment and reflect on your own math ability. Which one of the following best describes you?**

- ✓ 5 = Very Strong...I love math, I love the challenge.
- ✓ 4 = Strong...I do well, I get most concepts.
- ✓ 3 = Okay...I get by, but I need to work hard at it.
- ✓ 2 = Struggle...I can do a little bit, but it is very difficult.
- ✓ 1 = Challenging...I have hard time with time in math.

5

## WHY IS BEING MATHEMATICAL LITERATE (I.E. NUMERATE) IMPORTANT?

6



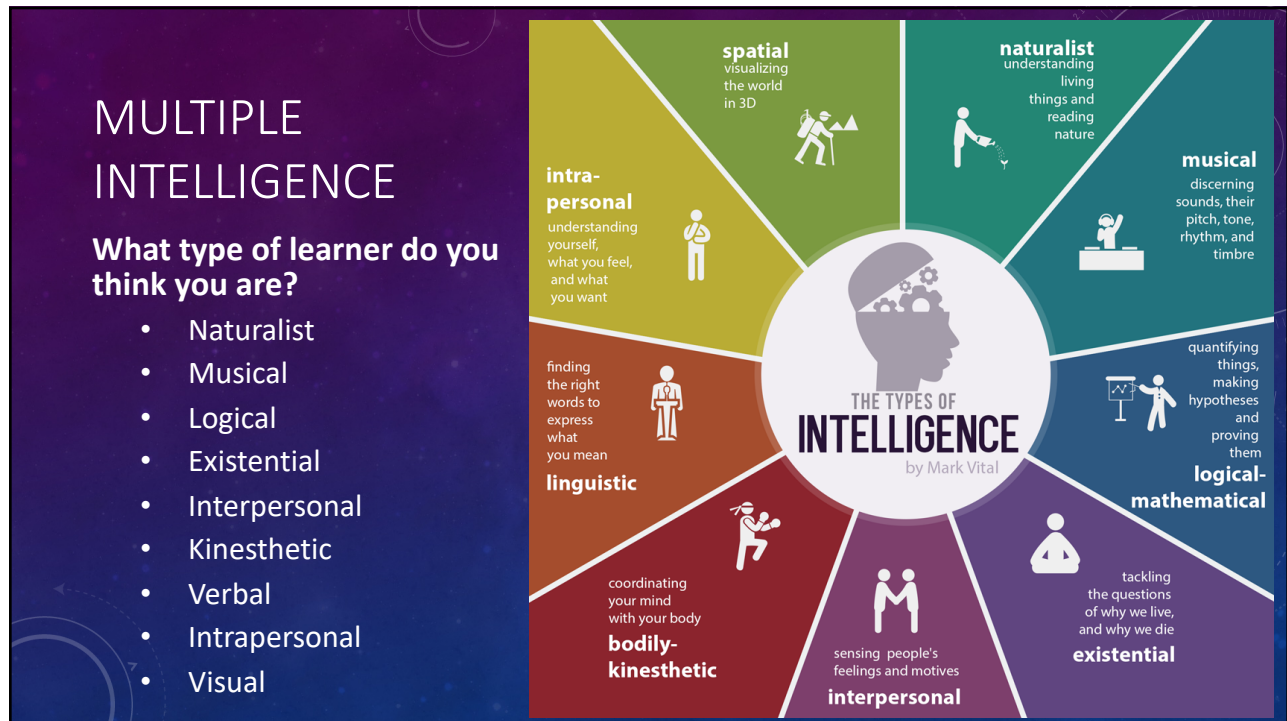
WHAT SKILLS, KNOWLEDGE, ABILITY,  
ETC... ARE IMPORTANT FOR DOING  
MATH (I.E. COMPETENCIES)?

7



WHAT HAVE YOUR PAST EXPERIENCES  
IN MATH LOOK LIKE?

8



9

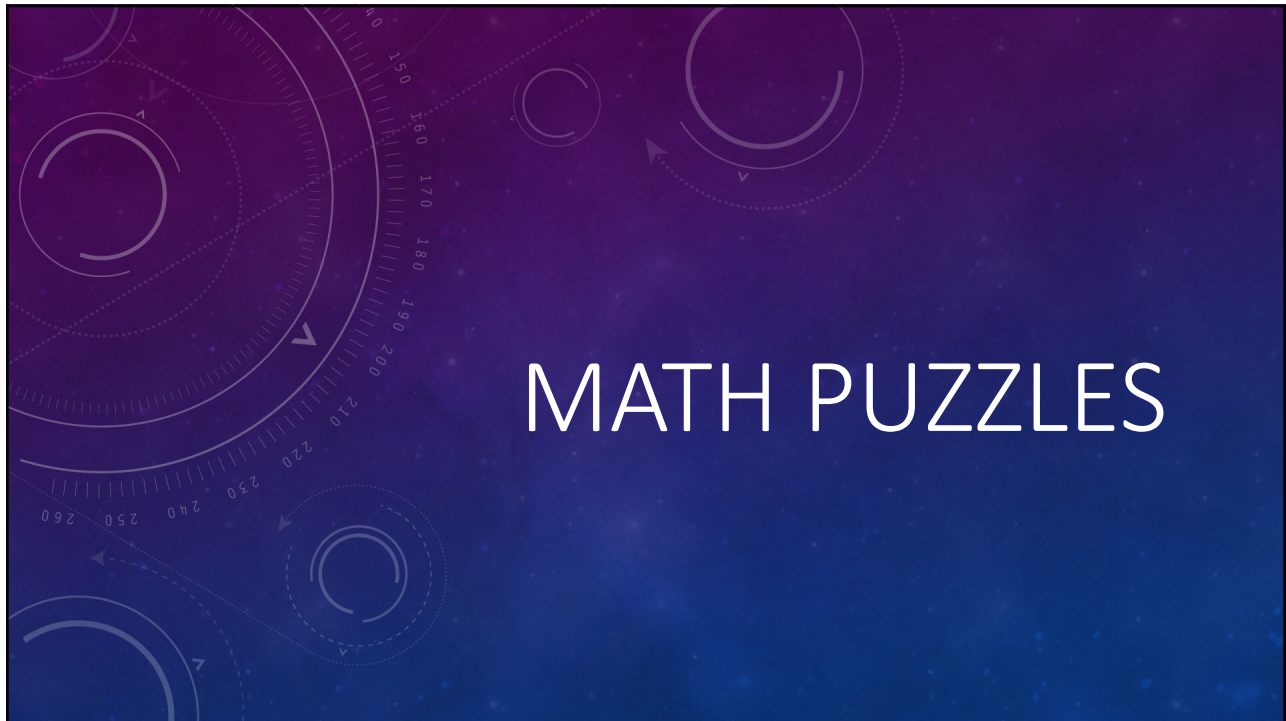
# MULTIPLE INTELLIGENCE

- 1) Make a prediction of what type of learner you are, write this down.
- 2) Complete the Multiple Intelligence test. Be sure to answer the questions truthfully and honestly...this is for you and only you!
- 3) After all the questions are completed, tally up your results as instructed in the document.
- 4) Make a graph to illustrate your results.

**Questions:**

- a) How did your prediction compare to your results? Explain.
- b) Were you surprised by any of the results? Do you disagree with any of the results?
- c) What steps can you make to take to make your lower learning styles results higher?

10



# MATH PUZZLES

11

## MATHDUKO

**Instructions**  
Fill in the blank squares so that each row and column contain all the appropriate digits for the corresponding size of puzzle.

**For Example:**

- 3x3 Puzzle → #1, 2, 3
- 4x4 Puzzle → #1, 2, 3, 4
- 5x5 Puzzle → #1, 2, 3, 4, 5
- Etc...

2 /	1 -		1 -
	4 ×	2 /	
12 +			4 ×

12

## MATHDUKO

### Instructions

The heavy lines indicate areas (called cages) that contain groups of numbers that are combined (in any order) to produce the result shown in the cage using only the indicated math operation.

### For example:

- $4\times$  means you can multiply the values together to produce 4.
- $2/$  means you divide the values together to produce 2.

$2/$	$1 -$		$1 -$
	$4 \times$	$2/$	
$12 +$			$4 \times$

13

## MATHDUKO

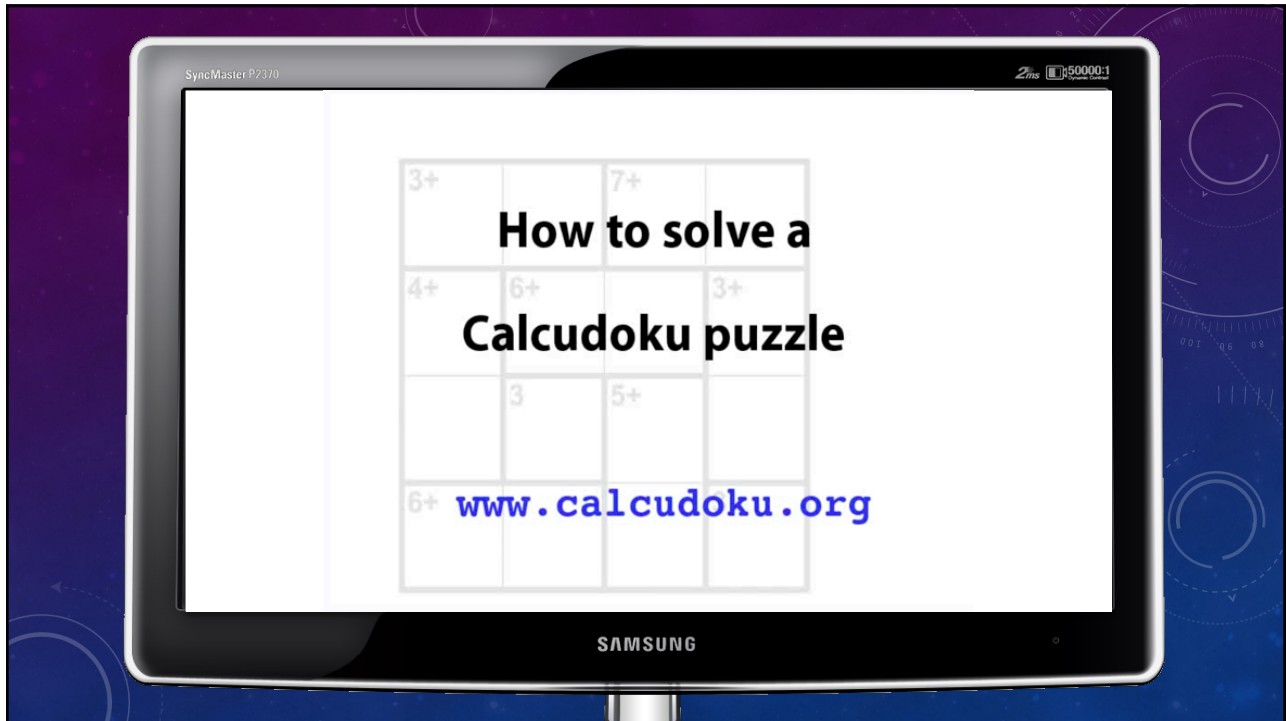
### Instructions

Note that a slash (/) to indicate division instead of the traditional symbol ( $\div$ ) to avoid confusion with the plus sign (+).

Numbers in cages may repeat, as long as they are not in the same row or column.

$2/$	$1 -$		$1 -$
	$4 \times$ <del>2</del>	$2/$	
$12 +$ ✓ 2	<del>2</del>		$4 \times$
	✓ 2		

14



15

### MATHDUKO

#### 3x3 Puzzle

$2 \times 1,2$ <b>1</b>	$1 - 1,2,3$ <b>3</b>	$1,2,3$ <b>2</b>
$1,2$ <b>2</b>	$1,2$ <b>1</b>	$3 \times 1,3$ <b>3</b>
$1 - 1,2,3$ <b>3</b>	$1,2,3$ <b>2</b>	$1,3$ <b>1</b>

#### 4x4 Puzzle

$2/$ $1,2,4$ <b>1</b>	$1 -$ $1,2,3,4$ <b>3</b>	$1,2,3,4$ <b>4</b>	$1 -$ $2,3$ <b>2</b>
$1,2,4$ <b>2</b>	$4 \times$ $1,4$ <b>4</b>	$2/$ $1,2,4$ <b>1</b>	$2,3$ <b>3</b>
$12 +$ $2,3,3,4$ <b>3</b>	$1,4$ <b>1</b>	$1,2,4$ <b>2</b>	$4 \times$ $1,4$ <b>4</b>
$2,3,3,4$ <b>4</b>	$2,3,3,4$ <b>2</b>	$2,3,3,4$ <b>3</b>	$1,4$ <b>1</b>

16



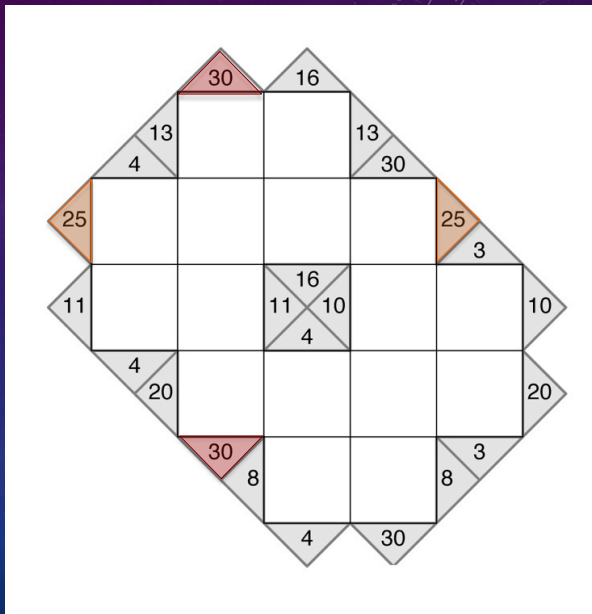
# KAKURO

## Instructions

At the top and bottom of each column and the left and right of each row contains a clue square.

The clue square indicates what each row or column must ADD to.

You are allowed to use numbers between 1 – 9, but within each row or column there can be NO DUPLICATES.



17

# KAKURO

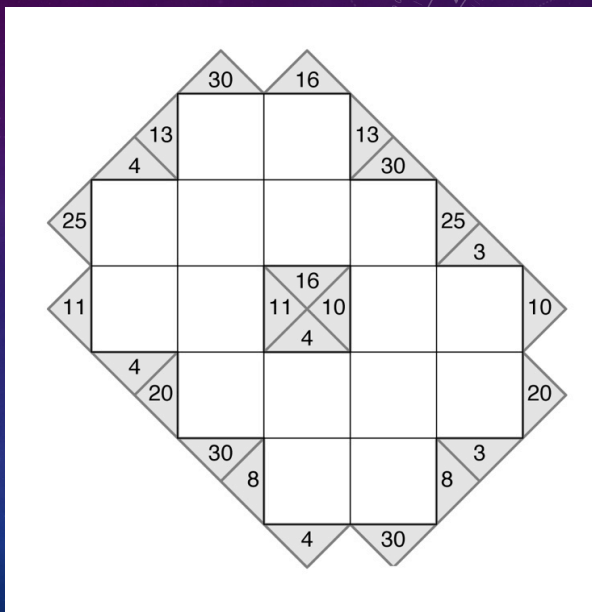
**Hint:** Look for Magic Numbers!

## 2 Cell Combinations

- 3 → 1 + 2 or 2 + 1
- 4 → 1 + 3 or 3 + 1
- 16 → 7 + 9 or 9 + 7
- 17 → 8 + 9 or 9 + 8

## 3 Cell Combinations

- 6 → 1 + 2 + 3
- 7 → 1 + 2 + 4
- 23 → 6 + 8 + 9
- 24 → 7 + 8 + 9



18

# KAKURO

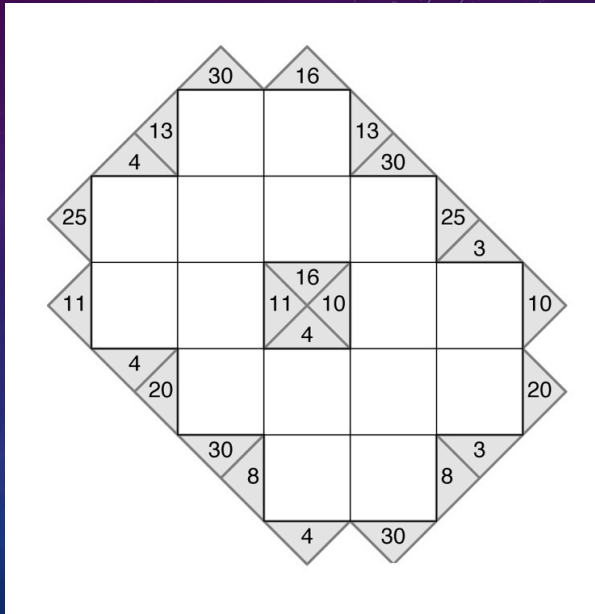
**Hints:** Look for Magic Numbers!

4 Cell Combinations

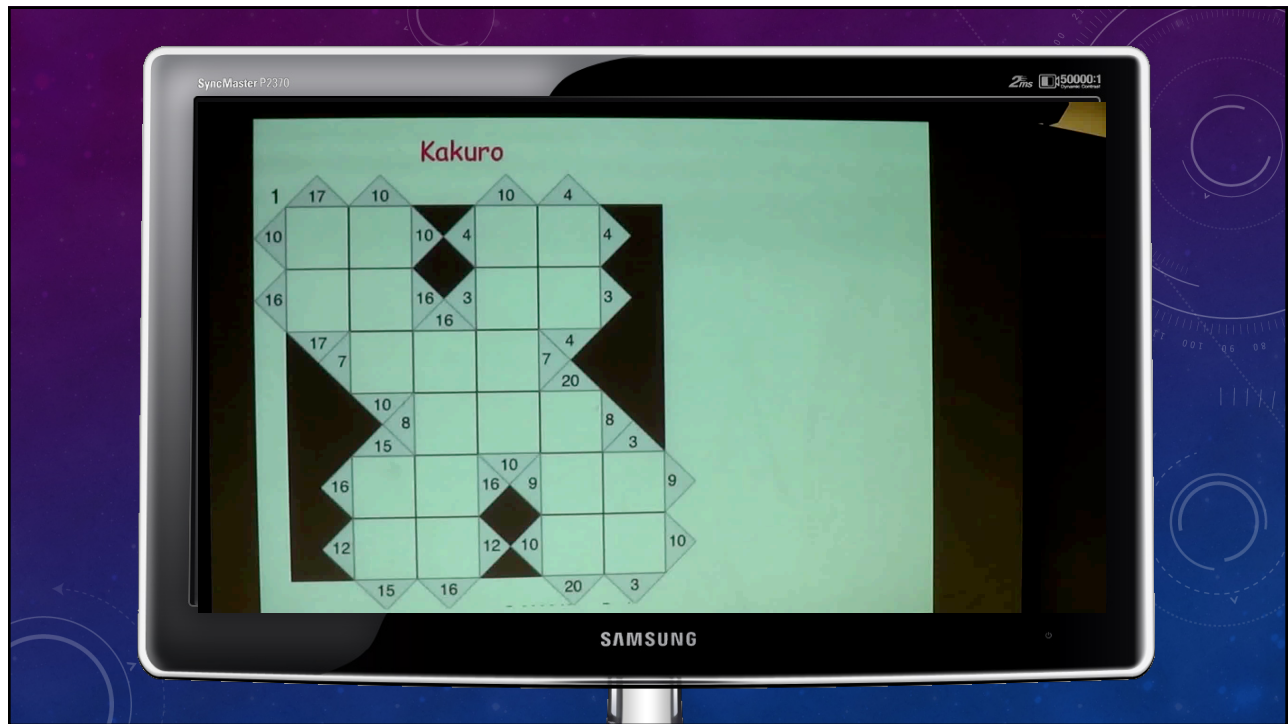
- $10 \rightarrow 1+2+3+4$
- $11 \rightarrow 1+2+3+5$
- $29 \rightarrow 5+7+8+9$
- $30 \rightarrow 6+7+8+9$

5 Cell Combinations

- $15 \rightarrow 1+2+3+4+5$
- $16 \rightarrow 1+2+3+4+6$
- $34 \rightarrow 4+6+7+8+9$
- $35 \rightarrow 5+6+7+8+9$

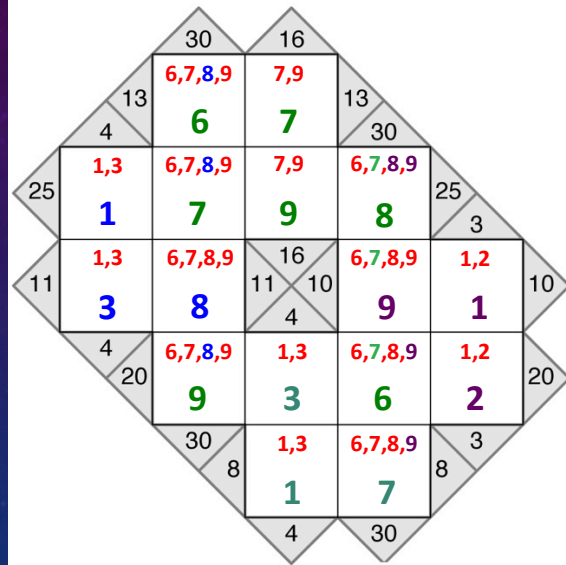


19



20

# KAKURO

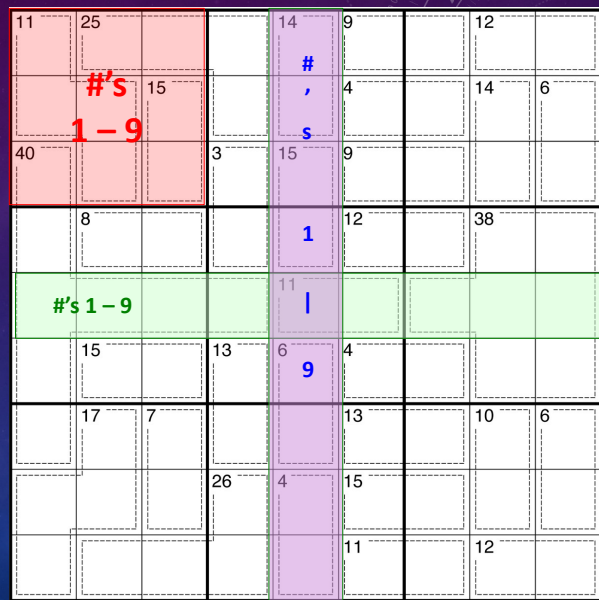


21

# KILLER SUDUKO

• Instructions

- Each Row and Column must contain the numbers from 1 to 9
- Each little 3x3 square must also contain the numbers 1 to 9.
- Numbers cannot repeat within each row, column, or little square.



22

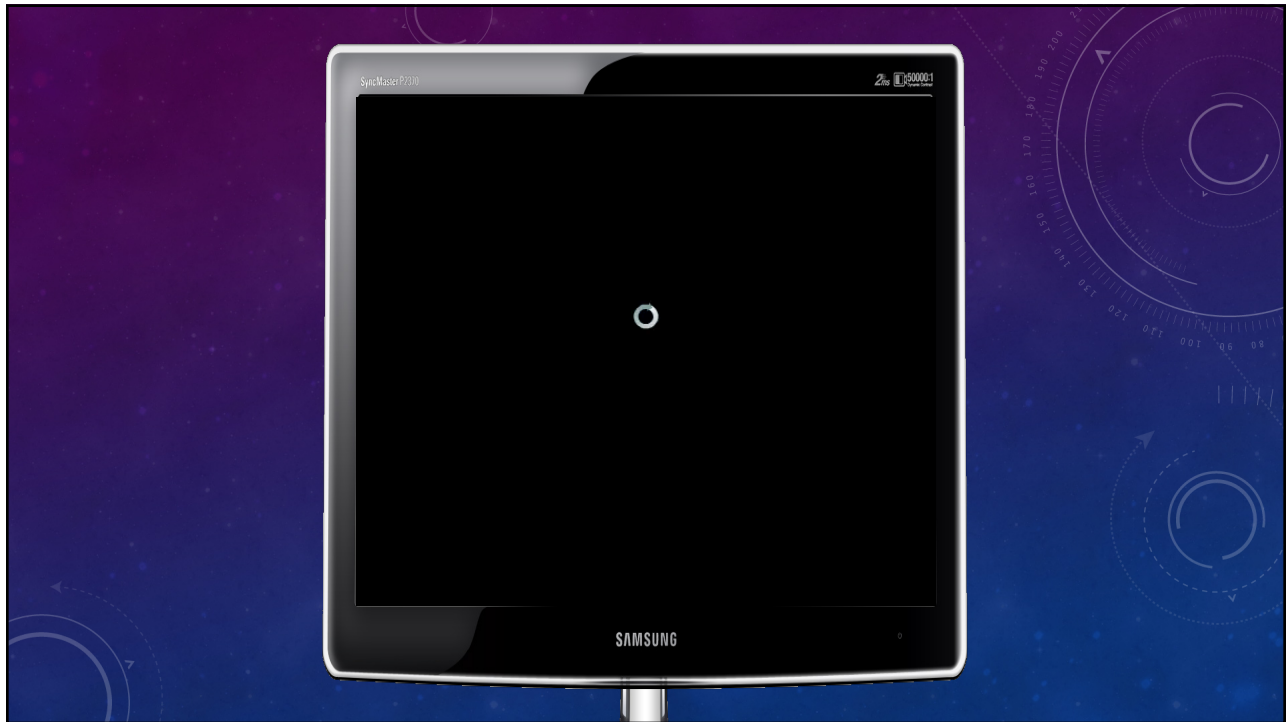
# KILLER SUDUKO

- Instructions

- Within the puzzle there are cages (dotted lines).
- Each cage contains a number which indicates what all the c

11	25			14	9		12	
		15			4		14	6
40			3	15	9			
	8				12		38	
				11				
	15		13	6	4			
	17	7			13		10	6
			26	4	15			
					11		12	

23



24