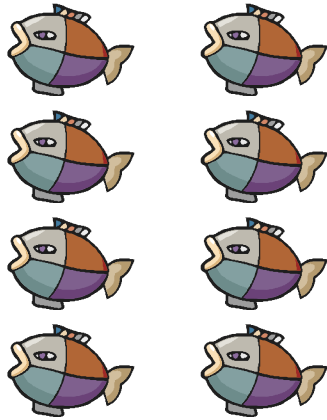


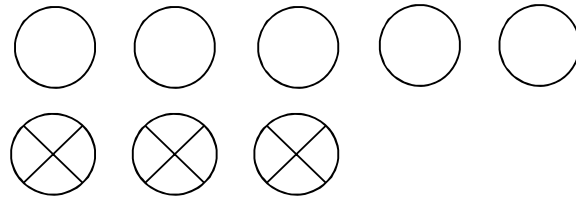


# **MATH STRATEGY TOOL BOX**

# PICTURE



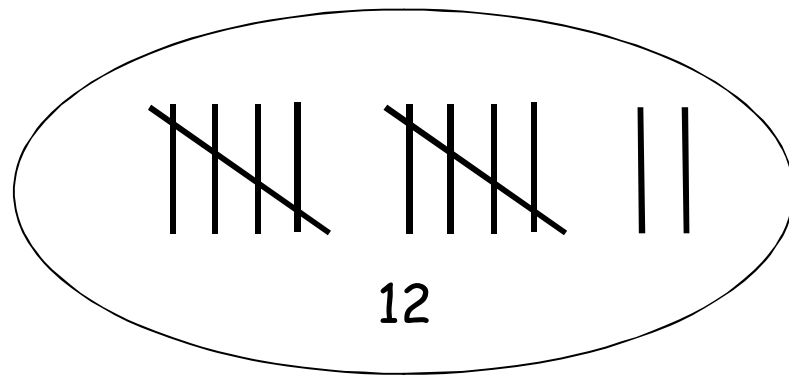
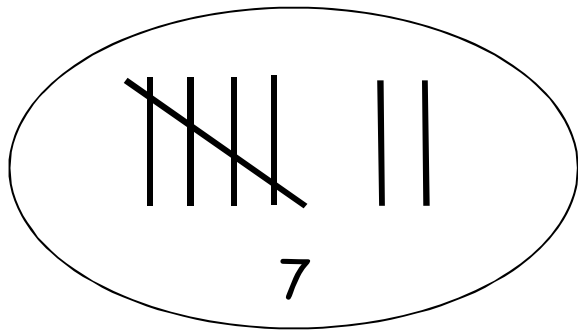
$$4 + 4 = 8$$



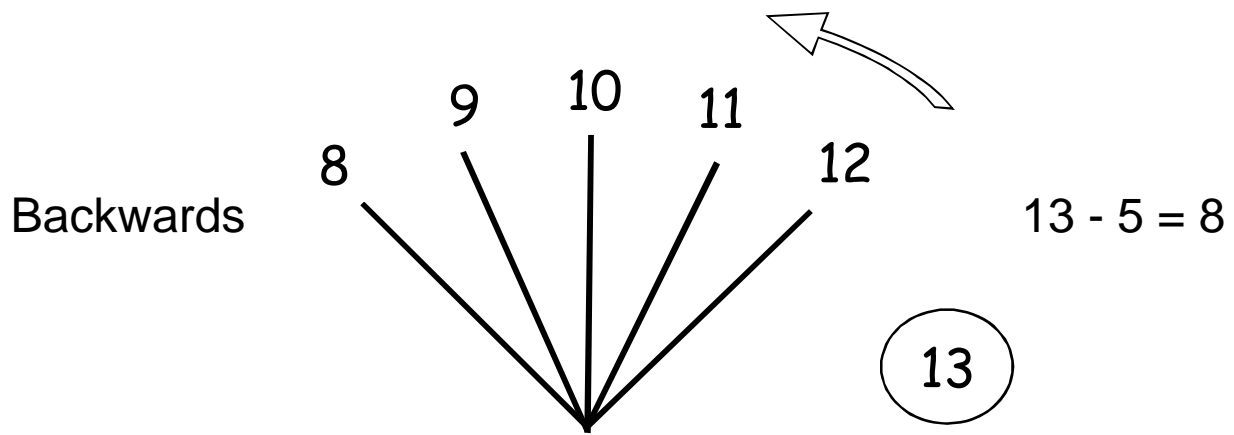
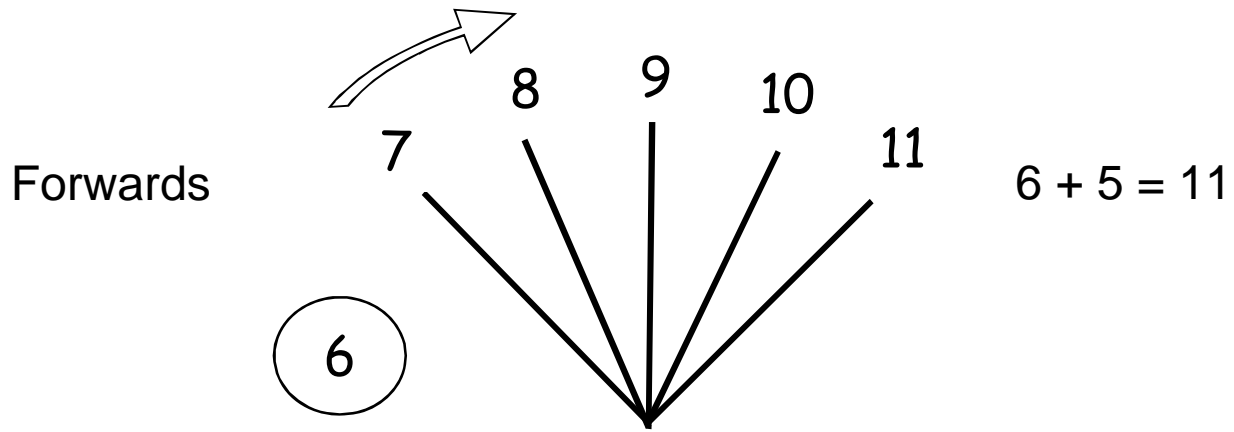
$$8 - 3 = 5$$

This is not an art project. You can use shapes to represent things.

# TALLY MARKS

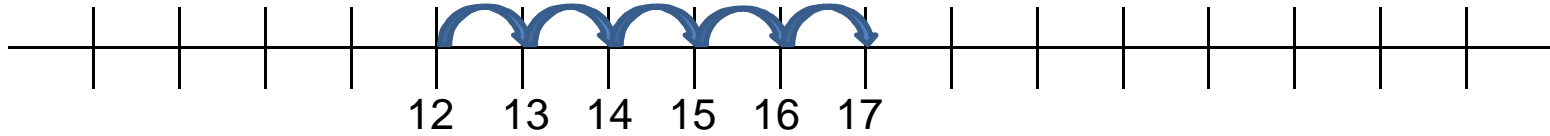


# COUNT ON

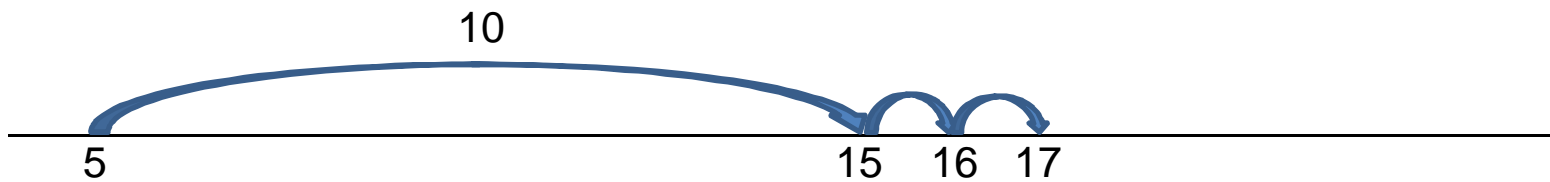


# NUMBER LINE

$$12 + 5 = 17$$



$$5 + 12 = 17$$



# 5 FRAME


--	--	--	--	--

# TEN FRAME



## DOUBLES

$$\begin{array}{r} 1 + 1 = 2 \\ 2 + 2 = 4 \\ 3 + 3 = 6 \\ 4 + 4 = 8 \\ 5 + 5 = 10 \\ 6 + 6 = 12 \\ 7 + 7 = 14 \\ 8 + 8 = 16 \\ 9 + 9 = 18 \\ 10 + 10 = 20 \end{array}$$

even

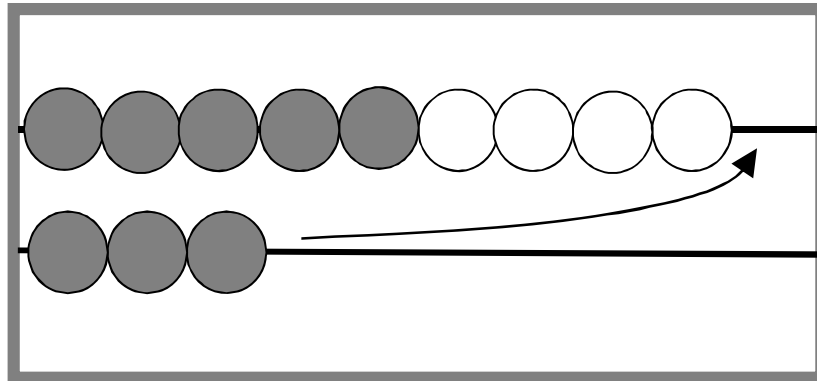
## DOUBLES + 1

$$\begin{array}{r} 1 + 1 + 1 = 3 \\ 2 + 2 + 1 = 5 \\ 3 + 3 + 1 = 7 \\ 4 + 4 + 1 = 9 \\ 5 + 5 + 1 = 11 \\ 6 + 6 + 1 = 13 \\ 7 + 7 + 1 = 15 \\ 8 + 8 + 1 = 17 \\ 9 + 9 + 1 = 19 \\ 10 + 10 + 1 = 21 \end{array}$$

odd

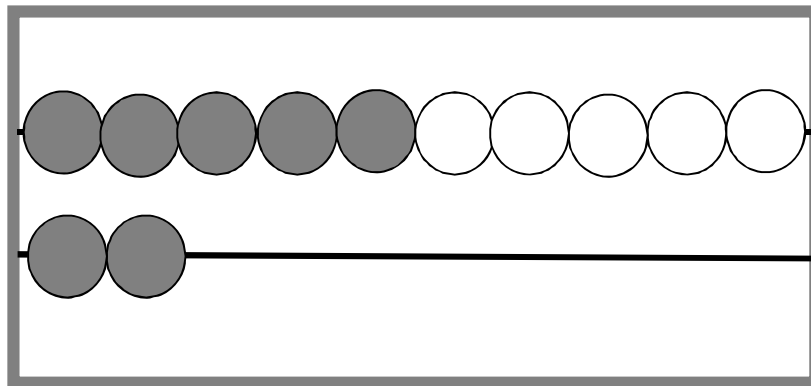


# MAKE A 10



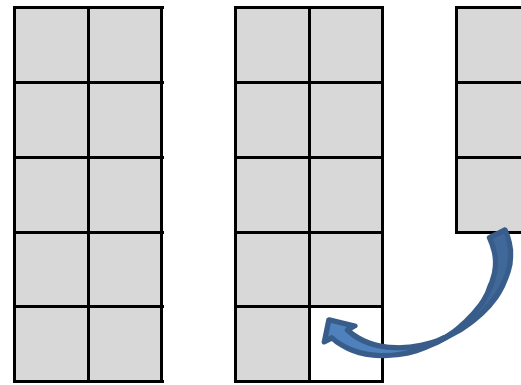
$$9 + 3 = 12$$

I know  $9 + 1 = 10$   
 $10 + 2 = 12$



# MAKE A 10

$$19 + 3 = 22$$



I know  $9 + 1 = 10$

so

$$10 + 10 = 20$$

$$20 + 2 = 22$$

OR

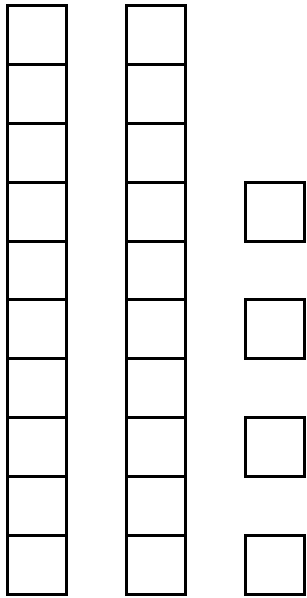
I know  $9 + 1 = 10$

so

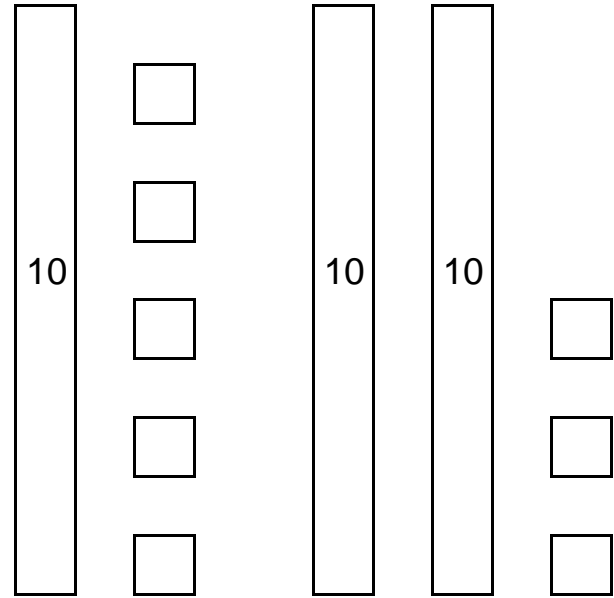
$$19 + 1 = 20$$

$$20 + 2 = 22$$

# PLACE VALUE



$$24 = 10 + 10 + 4$$



$$15 + 23 = 38$$

# KNOWN FACTS

(Number Sentences/Equations)

"I just know it:  $8 + 5 = 13$ ."

"I can write . . . "

$$8 + 5 = 13$$

$$13 = 5 + 8$$

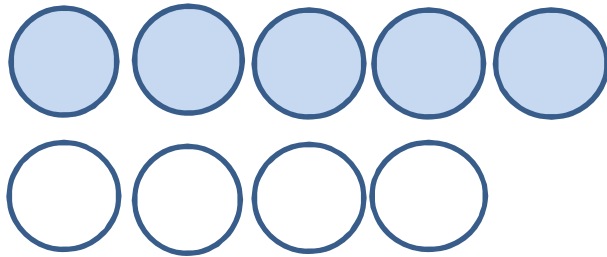
$$13 - 5 = 8$$

$$5 + 8 = 4 + 9$$

$$\begin{array}{r} 8 \\ + 5 \\ \hline 13 \end{array}$$

$$\begin{array}{r} 13 \\ - 8 \\ \hline 5 \end{array}$$

# COUNTERS OR CUBES



$$5 + 4 = 9$$



# WORDS

I know this because \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Word Bank:

10-frame	equation	number sentence
add	even	odd
backwards	fingers	picture
chart	forwards	place value
count back	groups	plus
counted	jumps	represent
counting on	less	strategies
cubes	more	subtract
doubles	number	tally marks
equals	number line	t-chart