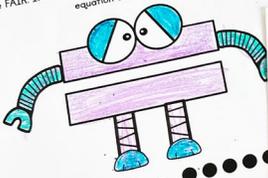


UNDERSTAND the EQUAL SIGN

Ernie The Equal Sign
Ernie is a really good friend in math. He always makes sure things are FAIR. It is very important to Ernie that both sides of the equation are the SAME.



$5 = \bullet \bullet \bullet \bullet$
 $12 = 12$
 $7 + 8 = 15$
 $11 - 6 = 2 + 3$

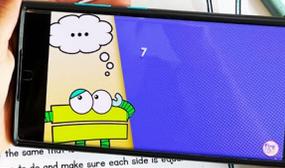
Earnie the Equal Sign
Ernie the equal sign he really cares.
He wants everything to work out real fair.
If he is there the numbers better be the same.
Are you ready to play the equal game?

Does 12 equal 12, well they are the same that's true.
Does 8 equal 7, yeah that's also true.
But does 7 plus 8 equal 14 no that is false.
7 plus 8 equals 15 they are the same on each side if you know what I mean.

Cause Ernie the equal sign
He wants everything to
If he is there the numbers
equal game

Does 5 plus 2
They are equal
Is 8-6 the
Yes

the same that's
as it says to do and make sure each side is equal



Name _____ Date _____

Directions: Color the TRUE equations and the FALSE equations.

$4 + 6 = 8$ $2 - 1 = 1$

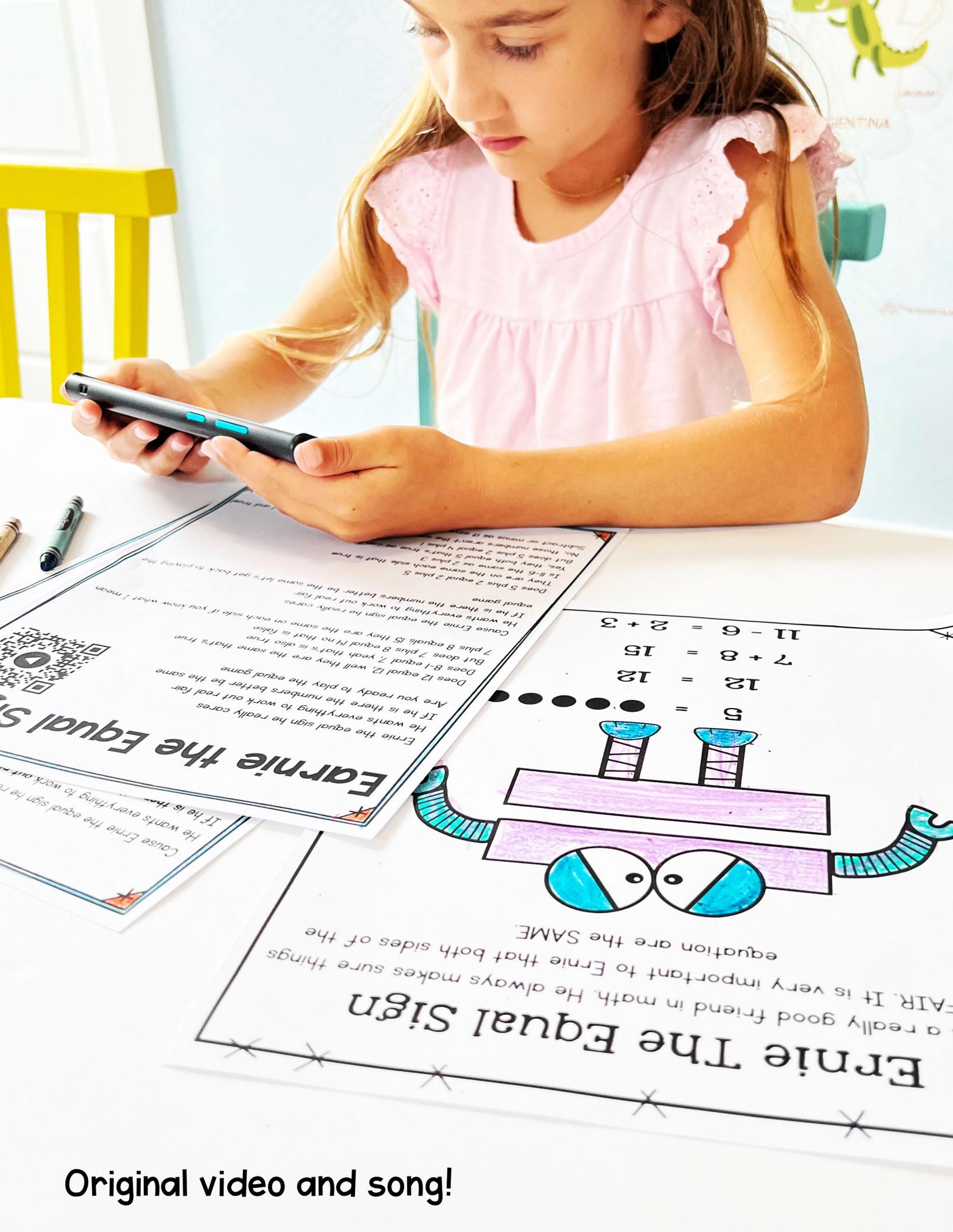
$8 - 7 = 3$ $3 + 0 = 3$ $5 - 4 = 2$

$10 - 8$ $7 + 3 = 10$ $8 - 0$



1st Grade

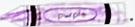


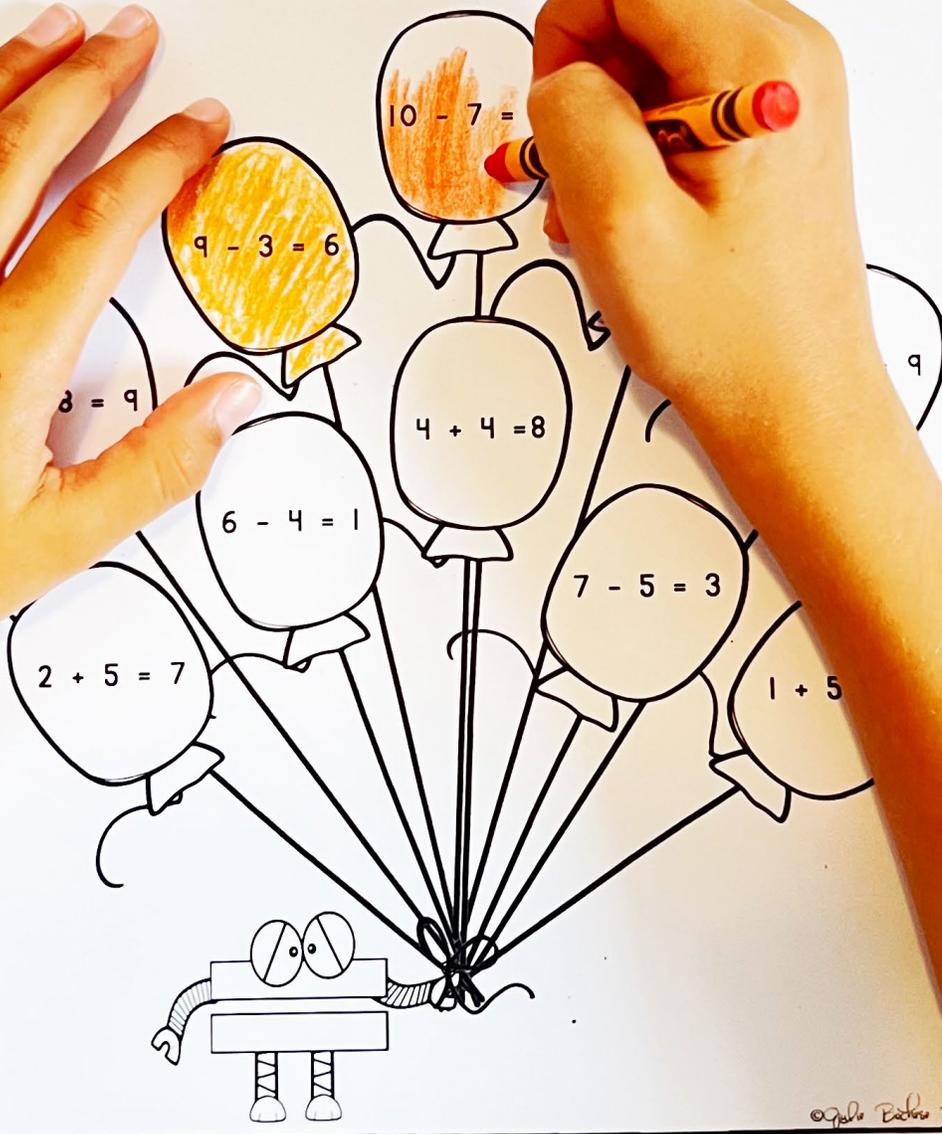


Original video and song!

Name: _____ Date: _____

True or False?

Directions: Color the TRUE equations  and the FALSE equations .





Name: _____ Date: _____

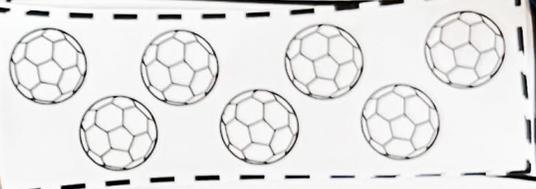


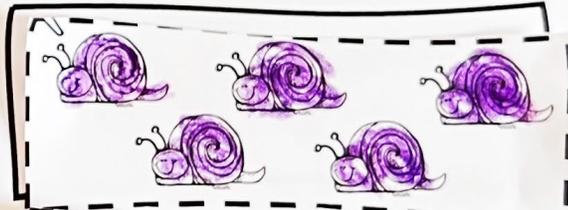
Understanding the Equal Sign

Directions: Balance out the equation. Cut and paste the correct number of objects on the other side of the equal sign from the correct digit.

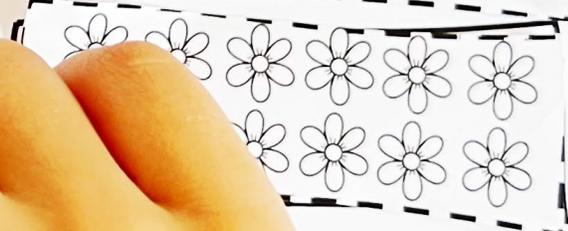
$3 =$ 

$0 =$ 

$7 =$ 

$5 =$ 







© Julie B...



True or False?

Directions: Color the TRUE equations and the FALSE equations.

Name: _____
Date: _____

$10 - 7 = 3$

$3 + 6 = 9$

$4 + 4 = 8$

$5 + 5 = 10$

$6 + 6 = 12$

$7 + 7 = 14$

$8 + 8 = 16$

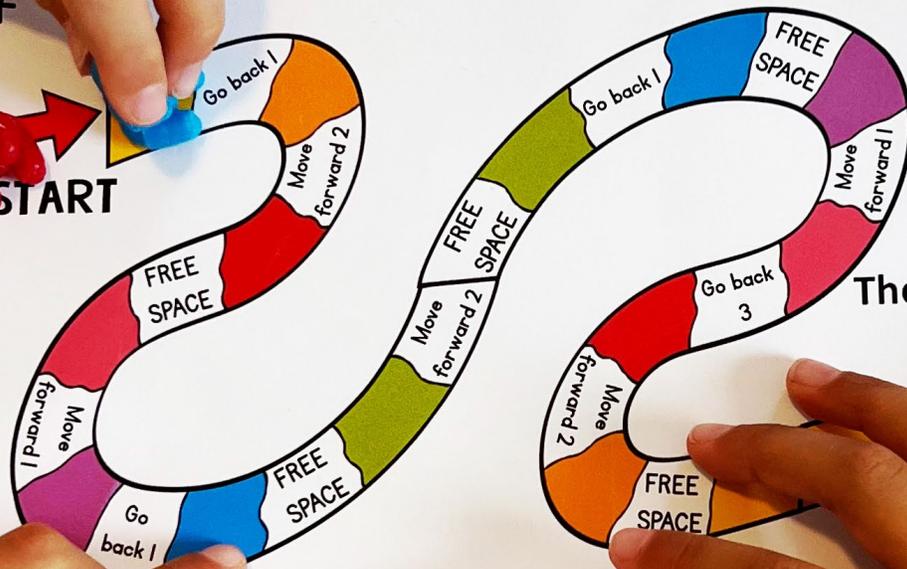
$9 + 9 = 18$

$10 + 10 = 20$

True or False?
 $6 + 11 = 15$

True or False?
 $9 + 5 = 14$

START



The True or False Game

True or False?
 $5 + 5 = 12$

and ma
and on a col
solve the True o
if you land on a whit
space. A "Free Space
happens.

star at the end wins!

IER



Equal Sign

math. He always makes sure things
to Ernie that both sides of the
are the SAME.



$$5 = \bullet \bullet \bullet \bullet$$
$$12 = 12$$
$$7 + 8 = 15$$
$$11 - 6 = 2 + 3$$

Ernie the Equal Sign

Ernie the equal sign he really cares
He wants everything to work out real fair
If he is there the numbers better be the same
Are you ready to play the equal game



Does 12 equal 12, well they are the same that's true
Does 8-1 equal 7, yeah that's is also true
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7 plus 8 equals 15 they are the same on each side if you know what I mean

Cause Ernie the equal sign he really cares
He wants everything to work out real fair
If he is there the numbers better be the same let's get back to playing the
equal game

Does 5 plus 2 equal 2 plus 5
They are on the same each side that is true
Is 11-6 the same as 2 plus 3
Yes, they both equal 5 that's true as can be
But does 5 plus 2 equal 4 plus 1
No, those numbers aren't the same that is false
Subtract or minus as it says to do and make sure each side is equal and true!

how to play

ad fun

UNDERSTAND the EQUAL SIGN

1. Pedagogy
2. Lesson Plans
3. Vocabulary Cards
4. Understanding the Equal Sign: Song & Video
5. Anchor Chart: Ernie the Equal Sign
6. Cheerio Balancing Board
7. Understanding the Equal Sign Cut and Paste
8. Anchor Chart: True or False?
9. True or False Coloring
10. True or False Sort
11. Anchor Chart: True or False Tree
12. True or False Sort Center
13. Mini Book: True or False? With Ernie the Equal Sign
14. Problem Solver
15. Quiz
16. The True or False Board Game

Understanding the Equal Sign

The equal sign is the anchor of understanding addition and subtraction equations. It is essential that 1st graders develop a strong grasp of what the equal sign means and its role as a building block in equations. This unit begins by building that understanding, putting emphasis on the equal sign meaning the “same” or “balanced.” As the unit progresses, the focus grows to highlight the accuracy of the equation, whether between addition equations, subtraction equations, or a mix of the two with one equation on each side. The determination between true or false equations becomes essential here.

During your Equal Sign/True or False unit, you will be highlighting primary skills such as addition, subtraction, and identifying an equation as true or false. You will also be encouraging sub-skills within the unit, such as critical thinking, fast fact memorization, and categorization. Students should know the meaning of the equal sign and that the two sides of the equal sign need to be balanced, or the same. Students should also understand the meaning of the terms “true” and “false,” as well as how to identify an equation as true or false. This ability to identify the equation must translate between addition equations, subtraction equations, and a blend of the two. With this understanding, your students will be able to progress and grow in their grasp of operations and algebraic equations.

Understanding the Equal Sign

Day 1: Introduce the equal sign and cheerio manipulatives.

Mini Lesson: Introduce the purpose of the lesson today: to understand what the equal sign means.

- Show students **just the equal sign** vocabulary card. You will introduce true and false in the following lesson. Tell students the meaning of the equal sign, being sure to highlight that it means “the same.” Demonstrate with manipulatives.
- Watch the Equal Sign Song.
- Introduce the “Ernie Equal Sign” Anchor Chart
- Model how to create balance with the equal sign by building various numbers with cheerios.
 - ex: $7 = \text{*****}$

Guided Practice: Introduce a fun manipulative for the students - cheerios! Students work on the “Cheerio Balancing Board” to balance numbers on the opposite side of the equal sign using cheerios.

Independent Practice: Students work on the “Understanding the Equal Sign” cut-and-paste balancing worksheet. They will cut and paste the correct number of objects on the opposite side of the equal sign from the correct value. Students need a copy of each of the pages.

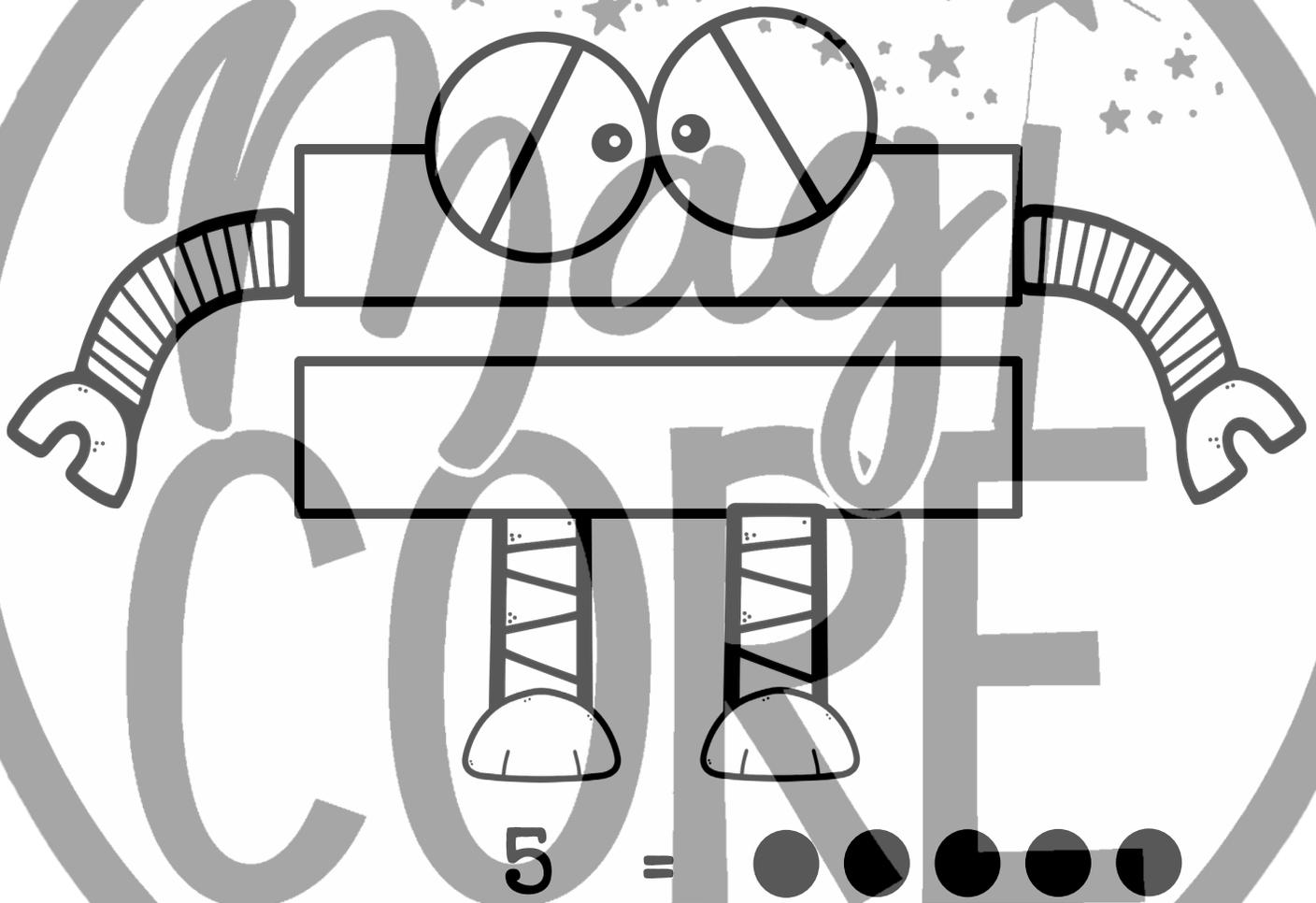
Day 2: Introduce True/False, Sort True or False under 10

Mini Lesson: Introduce the purpose of the lesson today: to understand the equal sign and if equations are true or false.

- Review the equal sign vocabulary card and anchor chart. Then, introduce the new True and False vocabulary cards.
- Watch and sing the Equal Sign Song.
- Model working through several equations and determining if they are true or false. Be sure to provide examples within addition equations and subtraction equations.
 - ex: $2 + 2 = 4$ TRUE; $10 = 3 + 4$ FALSE, $6 - 4 = 2$ TRUE

Ernie The Equal Sign

Ernie is a really good friend in math. He always makes sure things are FAIR. It is very important to Ernie that both sides of the equation are the SAME.



$$12 = 12$$

$$7 + 8 = 15$$

$$11 - 6 = 2 + 3$$

Earnie the Equal Sign

Ernie the equal sign he really cares
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Does 5 plus 2 equal 2 plus 5
They are on the same each side that is true
Is $11-6$ the same as 2 plus 3
Yes, they both equal 5 that's true as can be
But does 5 plus 2 equal 4 plus 1
No, those numbers aren't the same that is false
Subtract or minus as it says to do and make sure each side is equal and true!



Cheerio Balancing Board

Directions: Balance out the equal sign. Place the correct number of Cheerios on the other side of the equal sign so the value is the same on each side.

$4 =$

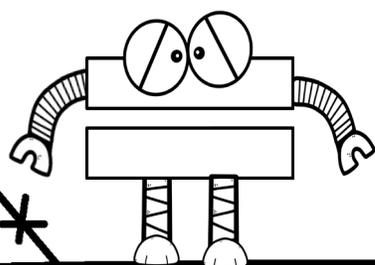
$11 =$

$9 =$

$6 =$

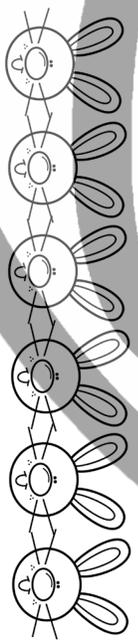
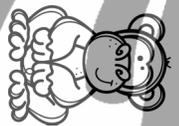
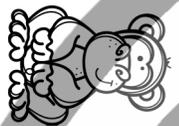
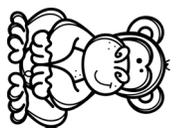
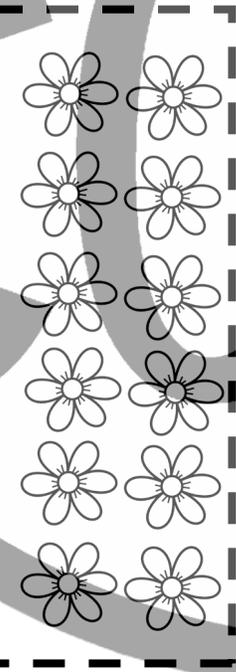
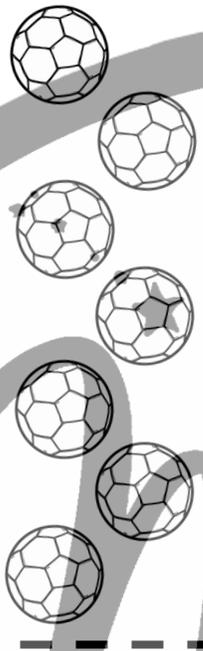
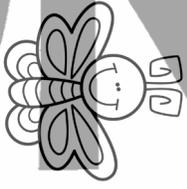
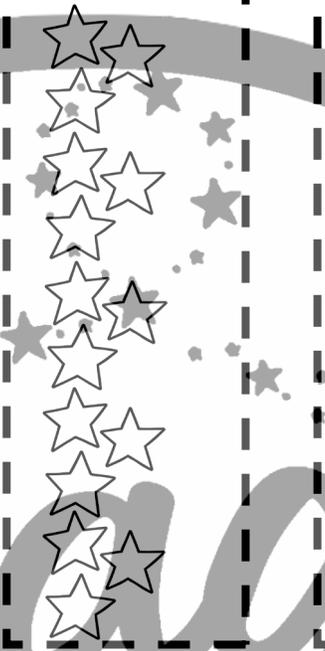
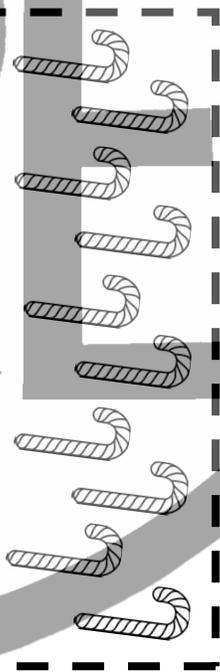
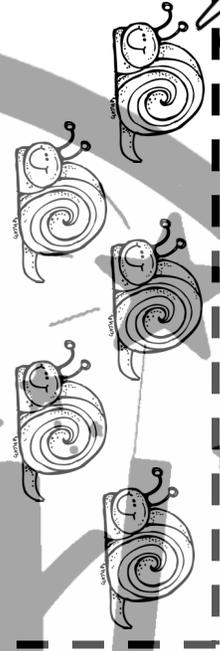
$3 =$

$10 =$



Understanding the Equal Sign

Directions: Cut out the box with the images and paste them across the equal sign from the correct number on the first page.



True or False?

When an equation is TRUE, that means both sides are equal or the same. When an equation is FALSE, that means the sides are not equal and they are not the same.

$9+2=11$

$6-3=4$

$7-5=2$

$10-5=6$

$2+6=9$

$8-7=1$

$3+7=10$

$5+2=7$

$8+1=10$

$0+3=3$

$9-7=4$

$10-3=8$

Color the TRUE equations in one color and the FALSE equations in a different color!

Name: _____ Date: _____

True or False?

Directions: Color the TRUE equations  and the FALSE equations .

$10 - 7 = 3$

$9 - 3 = 6$

$5 - 0 = 3$

$2 + 8 = 9$

$4 + 4 = 8$

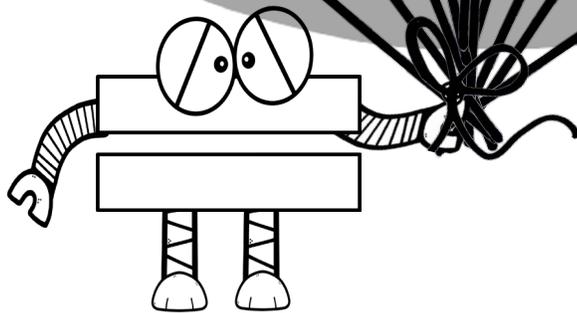
$5 + 4 = 9$

$6 - 4 = 1$

$7 - 5 = 3$

$2 + 5 = 7$

$1 + 5 = 4$



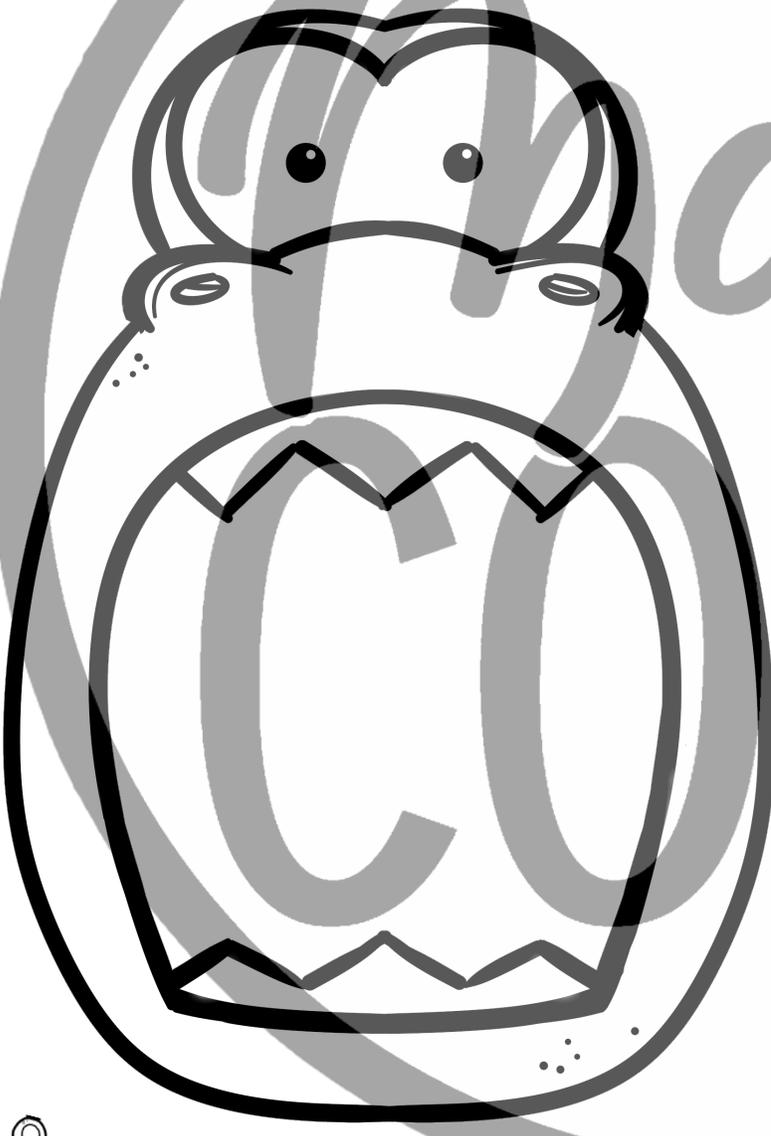
Name: _____ Date: _____

True or False Sort

Directions: Feed the hungry dinosaurs! Cut out the equation, solve it, and paste it under either TRUE or FALSE.

TRUE

FALSE



.....
4 + 7 = 8 + 2

.....
14 - 7 = 10 - 4

.....
6 + 9 = 11 + 4

.....
10 + 9 = 16 + 3

.....
13 - 4 = 19 - 10

.....
8 + 12 = 17 + 3

.....
16 - 3 = 18 - 7

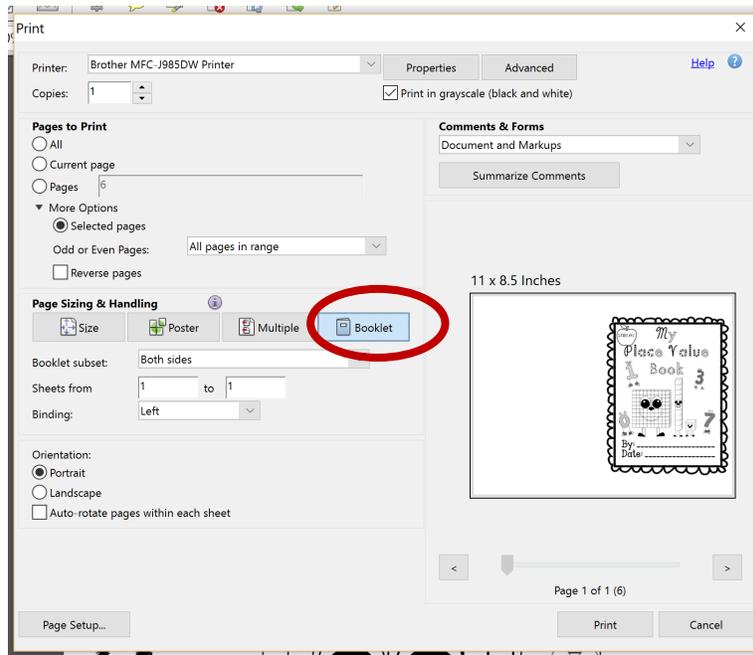
.....
11 - 7 = 14 - 10

.....
9 - 8 = 13 - 10

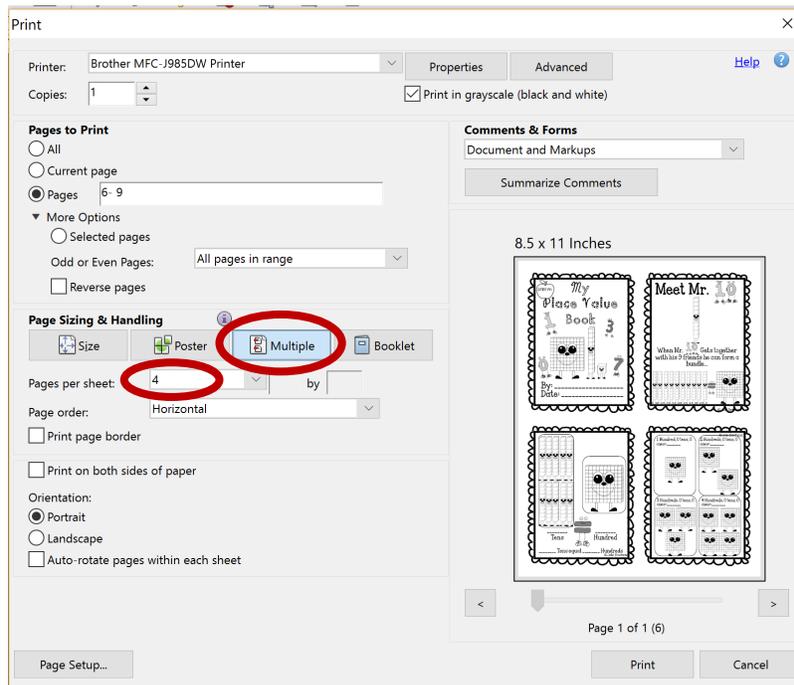
Mini Book Printing Tips

To save paper, you can print using the following options:

Half Page: Select “booklet” under sizing.



Mini Books (4 per page): Select “Multiple” under sizing. Select 4 per sheet.



Print as many pages as you would like to use Number of the Day.

True or False?

With Ernie The Equal Sign!

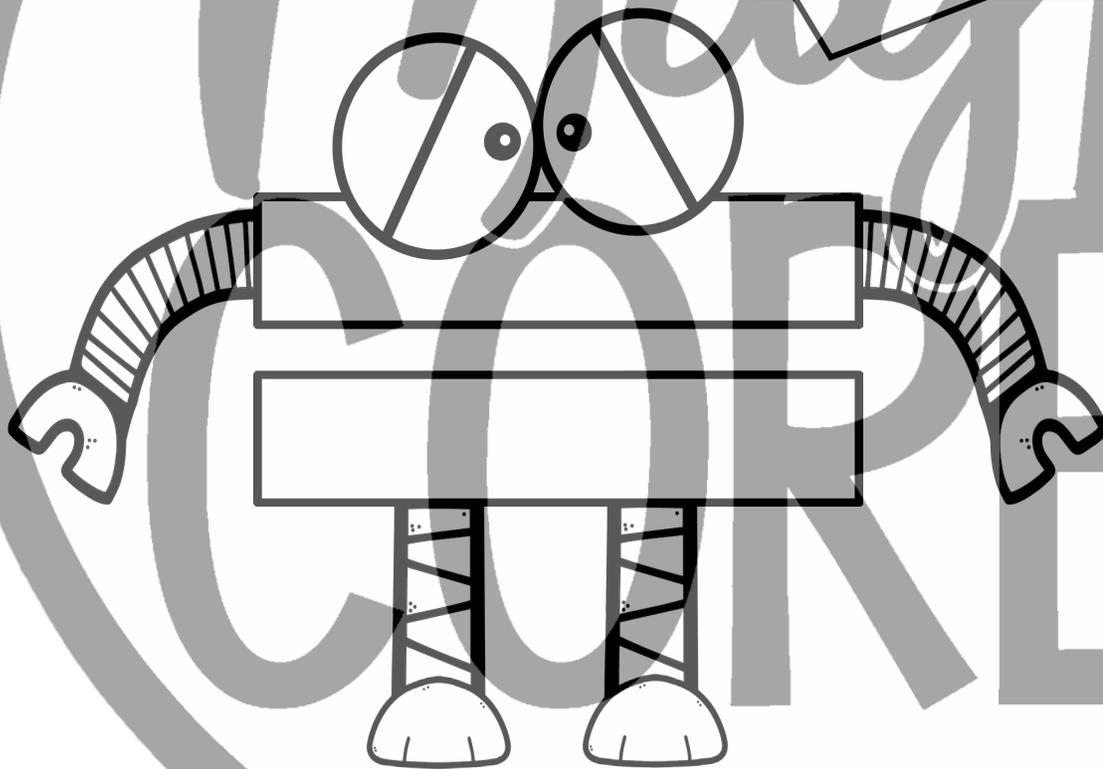


By: _____

Date: _____

I love when both
sides are the same!

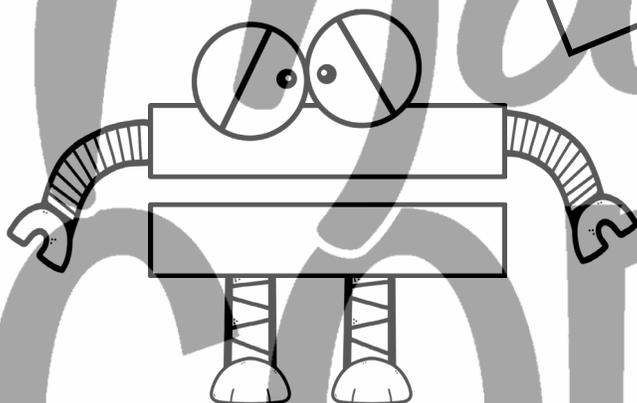
$$14 = 14$$



Ernie loves to be fair. As an
equal sign, he needs everything
to be balanced.

He wants both sides of the equation to be the same.

Can you help me balance these equations using •?



$5 =$

$8 =$

$10 =$

Name: _____ Date: _____

Problem Solver

Solve the word problems. Solve the equation in the word problem and determine if it is TRUE or FALSE. Write TRUE or FALSE in the box below the word problem.

1. Tina is working on her math homework. She solved her equation but isn't sure if she is correct. Can you help her? Tina's equation is: $12 + 5 = 16$. Is this TRUE or FALSE?

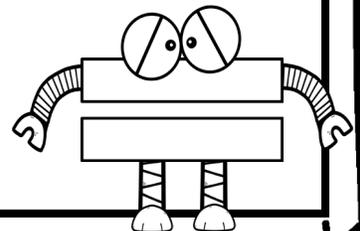
$$12 + 5 = 16$$

TRUE or FALSE?

2. Ian says that $13 - 7 = 3 + 3$, but his brother doesn't believe him! Can you solve the equations and help them figure out if it is TRUE or FALSE?

$$13 - 7 = 3 + 3$$

TRUE or FALSE?



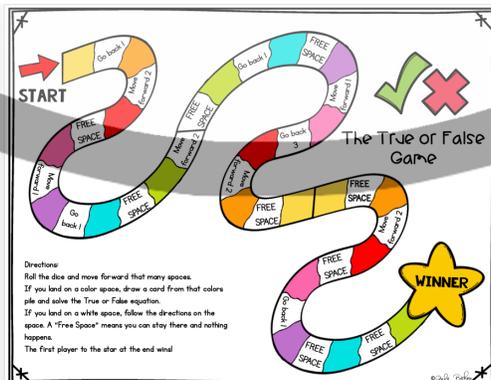
The True or False Game

Directions:

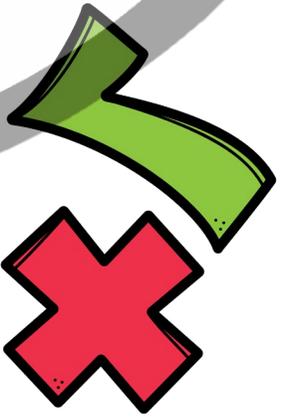
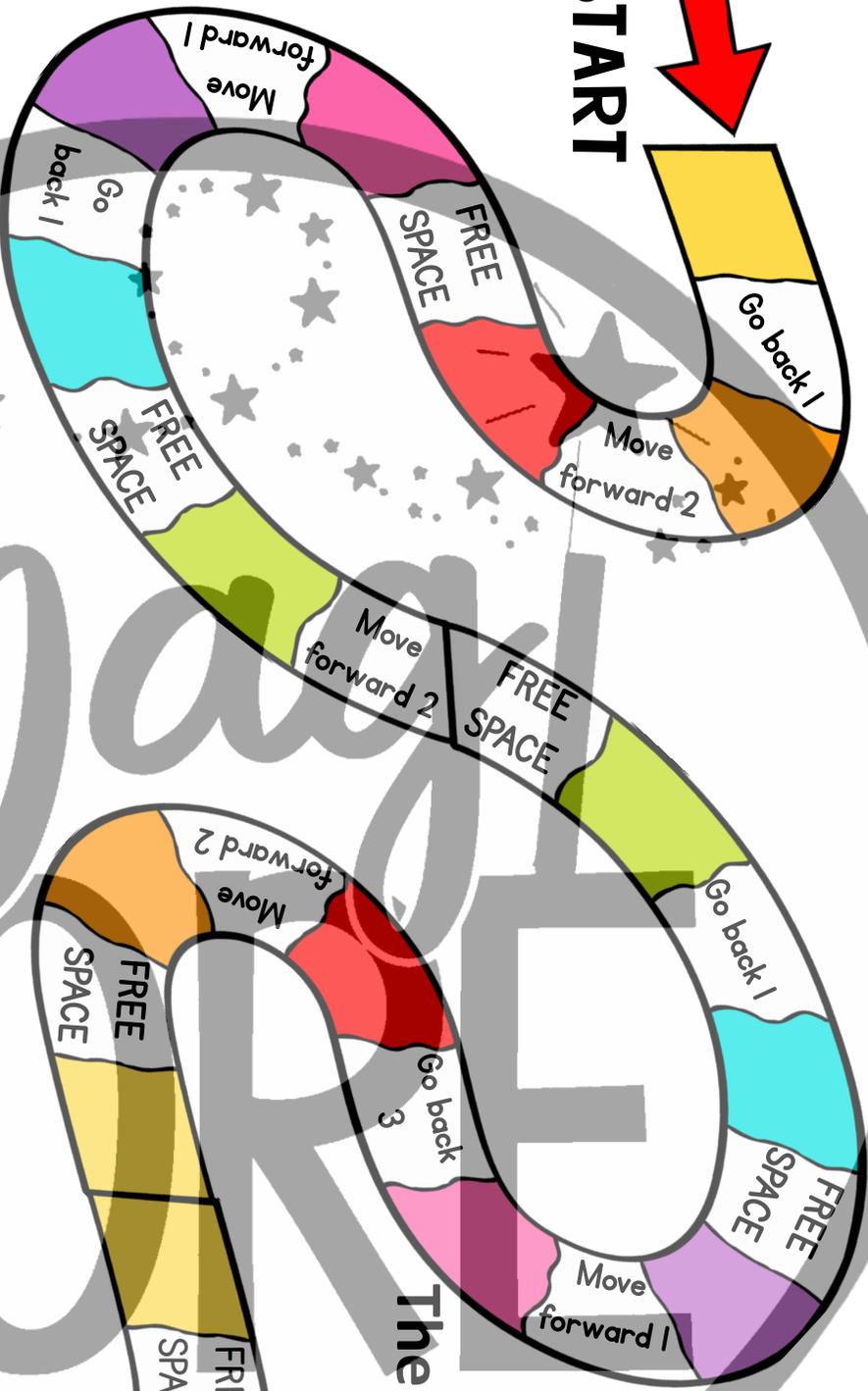
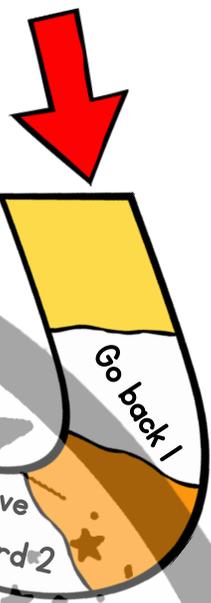
1. Print off the game board and playing cards. Consider printing the playing cards on colored paper corresponding with their color. This makes it easier for the students to identify the cards.
2. Laminate and cut out.
3. Pick out manipulatives for the player pieces.
4. Place all the playing pieces, dice, cards, and the game board in a gallon-sized bag or a box.
5. The bag or box should have 2-4 player pieces, 1 die, all color cards, and the game board.
6. This game is best played with 2-4 players.
7. Utilize this game in small groups or centers.

Label

The True or False Game



START



The True or False Game

Directions:

Roll the dice and move forward that many spaces.

If you land on a color space, draw a card from that color pile and solve the True or False equation.

If you land on a white space, follow the directions on the space. A "Free Space" means you can stay there and nothing happens.

The first player to the star at the end wins!



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Good to Go



Not O.K.

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