

ALGEBRAIC EXPRESSIONS

MATH STORY

Name _____

**ALGEBRAIC EXPRESSIONS:
CHALLENGE – 2**

1. Let's say you ended up with 11 apples. Use your expression from challenge 1 to figure out what your secret starting number ('x') must have been. Show your work!

2. **Create Your Own Problem:** Make up your apple challenge. Write an algebraic expression for your scenario and then solve it for two different starting numbers.

"X" represents an unknown number.

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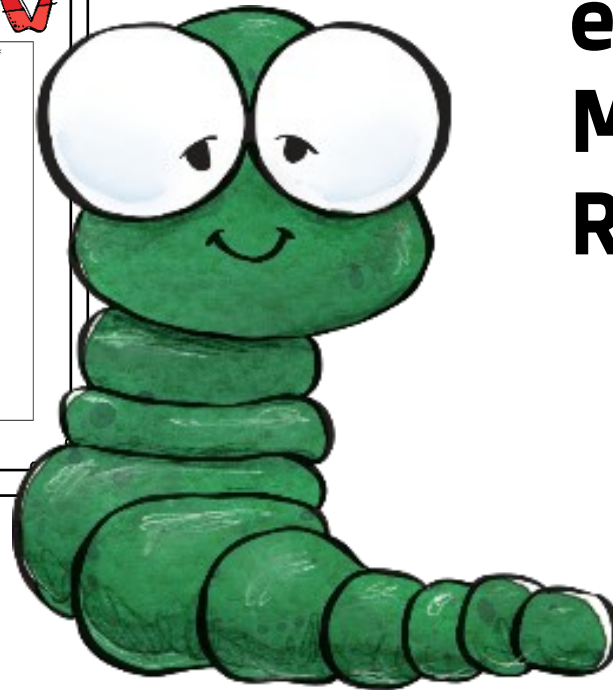
Name _____

**ALGEBRAIC EXPRESSIONS:
CHALLENGE – 4**

1. Now you're going to enter the Whispering Woods and try the apple box ritual yourself. Choose **any number** of apples and test the magic box.

2. Create your own "magic math routine" that always ends in a specific number.
Explain your ideas and thinking!

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**A variety of
problems and open-
ended challenges.
Metacognition –
Reflection.**

Color

WHAT'S INCLUDED:

4 Pages with Algebraic Expression Problems

Math Story

Write a Math Story

Metacognition – Reflection Worksheet

ALGEBRAIC EXPRESSIONS: STORY



Once upon a time in the heart of the Whispering Woods, there lived a clever little fox named Finley. He was not just brilliant, he was a math magician! His greatest secret? A mysterious, glowing apple box which he said held secrets of the universe (or at least, apple-based ones).

Every morning, forest creatures gathered in a line outside Finley's den, eager to test the powers of the box.

Step right up!" Finley called out with a grin, tail flicking with excitement. "Pick any number of apples to start with. The box can handle it!"

Herman the Hedgehog was first. "I'll start with 8 apples," he said, rolling them in.

Olive the Owl fluttered up next. "I want to try 20!"

Rupert the Rabbit bounced up excitedly. "I choose 100! That box won't trick me!"

ALGEBRAIC EXPRESSIONS: FINLEY'S MAGICAL APPLE BOX



Finley held up a shiny stick and said in a mysterious voice, "Now follow the Apple Box Ritual — exactly! Or the magic won't work!"

The crowd
Double the number
Add 10 apples
Split in half
Return the number to the original

The crowd grew quiet as Herman the Hedgehog stepped forward. Start with 8 apples.
Double it: 16
Add 10: 26
Split in half: 13
Return the original 8: $13 - 8 = 5$
The crowd gasped.

ALGEBRAIC EXPRESSIONS: STORY



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Ways to Use

Algebra Expression Units Centers Early Finishers Independent Work

[illegible]

...better?
?"

TE YOUR OWN MATH STORY!

...like Greta the Giraffe's Lemon Stand and make up your magic math
ways ends in a specific number.

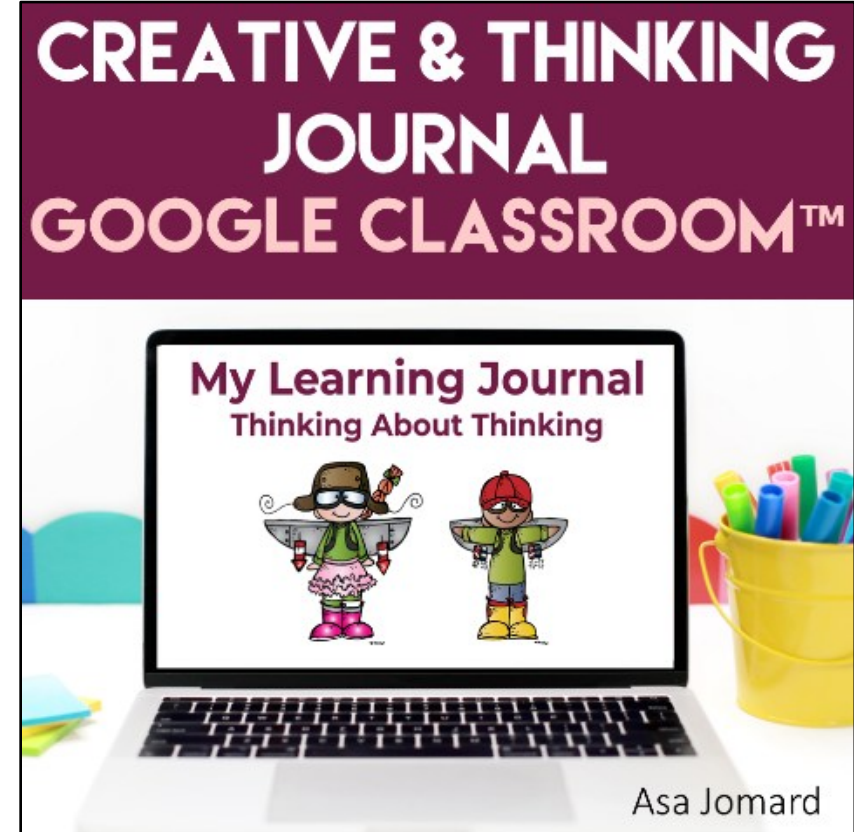
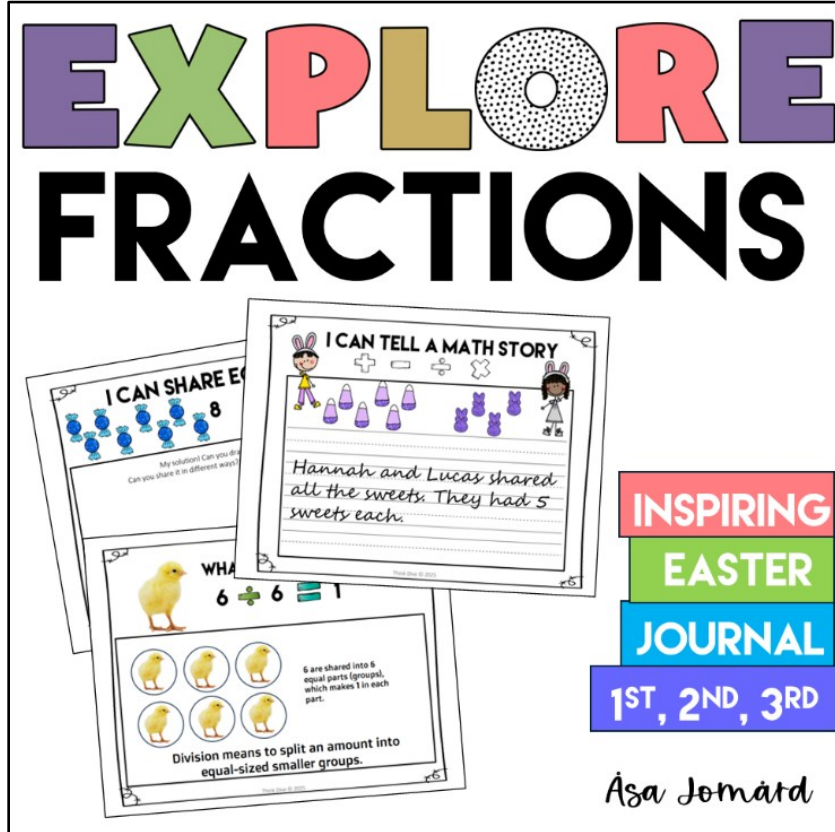
...you always want to end with.
...ep math routine.

...guarantee the same result every time?"
...w your trick works with any number?"



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You may like these resources!



You find me at



THINK DIVE - SPARKING CHILDRENS THINKIBILITY



BIOMIMICRY FOR YOUNG CHILDREN



TEACHER PAY TEACHER



PINTEREST



BIOMIMICRY FOR YOUNG CHILDREN

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Explain y

