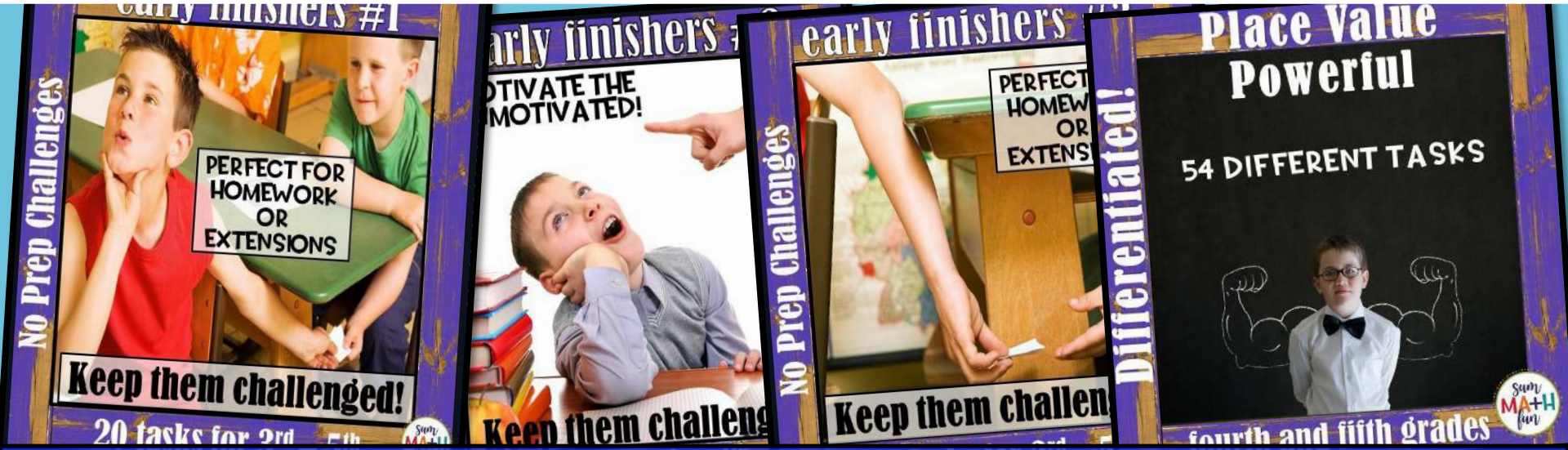
EARLY FINISHERS AND GIFTED BUNDLE

4TH THROUGH 6TH



DIFFERENTIATED CHALLENGES THAT DEVELOP MATHEMATICAL REASONING AND PROBLEM SOLVING

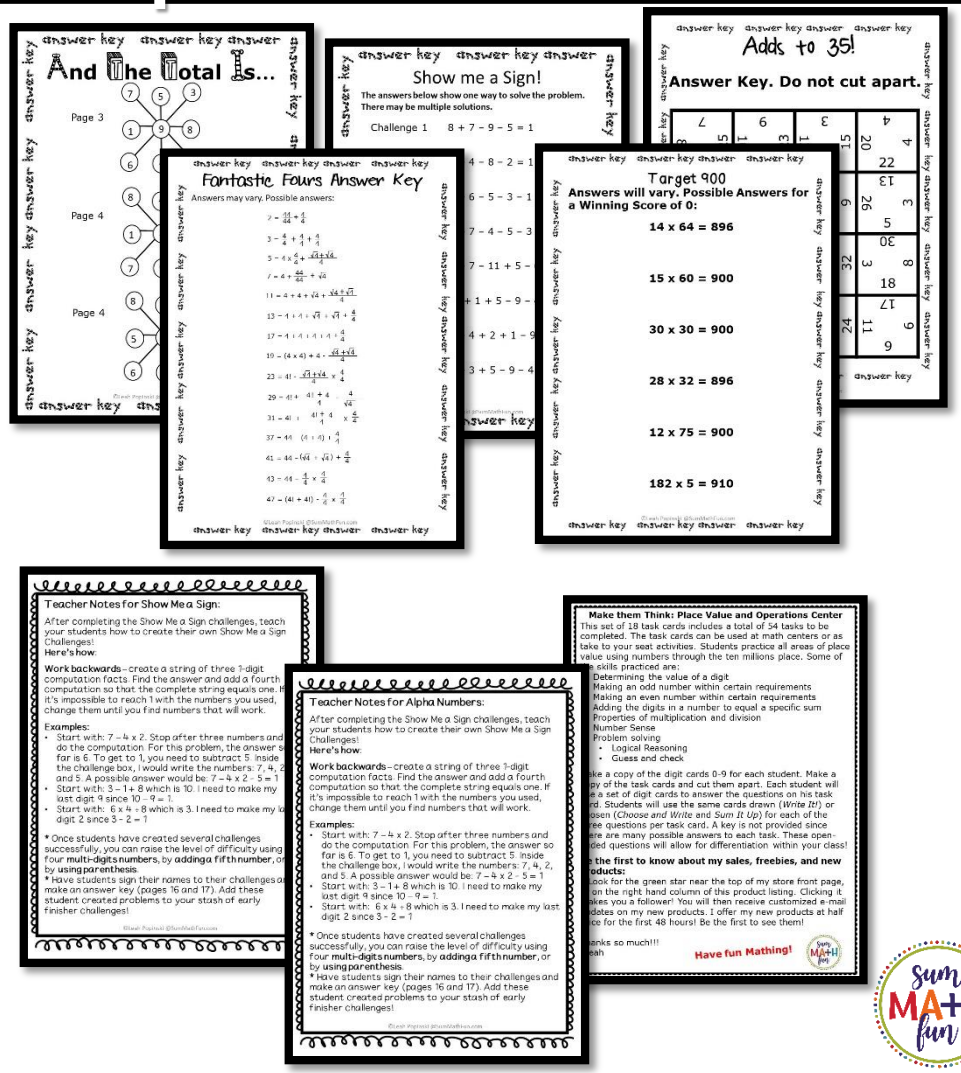
BY: LEAH POPINSKI

ABOUT THIS BUNDLE . . .

134 Motivating and Fun Math Challenges In 4 No-Prep Packets

Answer Keys Included For All Challenges That Are Not Open-Ended.

Detailed Teacher Notes And Tips.



EARLY FINISHERS #1

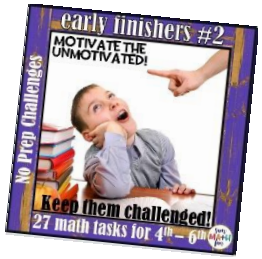
20 CHALLENGES

Targeted ↔ Number Sense

"My GATE students loved this. I provided the first few pages and they were begging for more."
-Patricia E.

sum MA+H fun

EARLY FINISHERS #2



27 CHALLENGES

Targeted ↔ Mathematical Reasoning

Tile Challenge #1
I have 4 numbers.
Three of my numbers are odd.
The largest number is the number of inches in one half of a foot.
What are my numbers?

Tile Challenge #3
I have 4 numbers.
The product of the smallest and the largest is a multiple of 9.
The sum of all four numbers is
The difference between the

Tile Challenge #5
- I have 4 numbers.
- Three numbers are odd.
- The product of all four numbers is 180.
- What are my numbers?

Tile Challenge #6
- I have 5 numbers.
- The product of all four numbers is 0.
- The largest is a multiple of 4.
- The sum of all of the numbers is 22.
- What are my numbers?

Tile Challenge #7
- I have 5 numbers.
- The sum of the 5 numbers is evenly divisible by 9.
- The difference between the smallest and the largest is 7.
- The two smallest numbers are even.
- What are my numbers?

Tile Challenge #8
- I have 5 numbers.
- The two smallest and two largest are sequential.
- The sum of all of the numbers is a prime number.
- between the

Tile Challenge #9
I have 5 numbers.
The largest number is three times the smallest.
The next to the largest is twice the next to the smallest.
The third from the smallest is twice the smallest.
What are my numbers?

Tile Challenge #11
I have 3 numbers.
Exactly 2 of my numbers are prime.

Tile Challenge #12
- I have 3 numbers.
- The sum of all of the numbers

- The product of all three numbers is 144.
- The second largest number is twice the smallest.
- The largest number is a multiple of 2.
- What are my numbers?

answer key answer key answer answer key

Tile Challenges

#5 My numbers are: 1 4 5 9

#6 My numbers are: 0 3 5 6 8

#7 My numbers are: 2 4 5 7 9

#9 My numbers are: 3 4 6 8 9

answer key answer key answer answer key

The answers below show one way solutions.

5) ÷ 7 -4 =

÷ 9) -2 -1 =

5) ÷ 3 – 5

answer key answer key

Alpha Nu

*There are multiple correct a
Students should justify

Page 14

#1 A =
B =

2 A =
B =

Show me a

Use each digit only once. Arrange the
between them to make each set of nu

Example: (3 x 6) ÷ 2 + 1 – 9 = 1

Challenge #8

4

5

My Solution:

Challenge #4

9

Show me a Sign!

Use each digit only once. Arrange the digits and add operatio
between them to make each set of numbers =1!

Example: (3 x 6) ÷ 2 + 1 – 9 = 1

8 3

Show me a Sign!

Use each digit only once. Arrange the digits and add operational symbols between them to make each set of numbers =1!

Example: (3 x 6) ÷ 2 + 1 – 9 = 1

Challenge #8

4 6 3

Show me a Sign!

Use each digit only once. Arrange the digits and add operat
between them to make each set of numbers =1!

Example: (3 x 6) ÷ 2 + 1 – 9 = 1

Challenge #1

7 4

My Answer:

sum MA+H fun

"Challenging and thought provoking, while still being fun and engaging for students!"
–Megan

Alpha N

Each letter in a problem represents a on
letter in the same problem represents t
one-digit number that makes each prob

DD x D = 275 D =

BB x A A =
B =

Alpha Numbers

Each letter in a problem represents a one-digit number. The same letter in the same problem represents the same number. Find the one-digit number that makes each problem true.

Example: XY X = 6, +XY Y = 7, 134

DD x D = 275 D =

BB x A A =
B =

Alph

ter in a problem represents a one-digit
the same problem represents the same number. Find the
it number that makes each problem true.

Example: XY X = 6, +XY Y = 7, 134

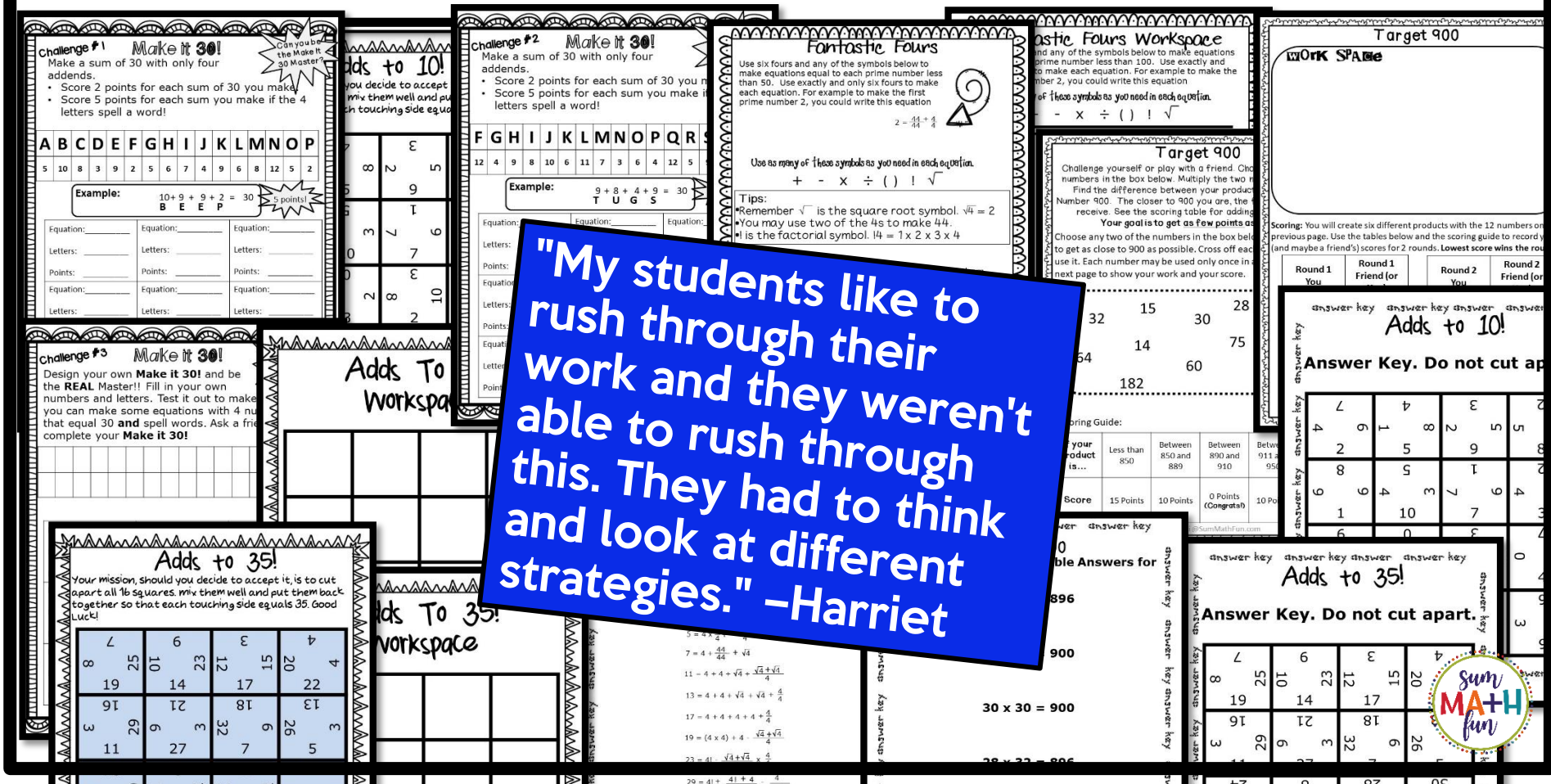
AB A =
A B =
B 7 C =

DAD A =
D D =

EARLY FINISHERS #3

33 CHALLENGES

Targeted ↔ Problem Solving



"My students like to rush through their work and they weren't able to rush through this. They had to think and look at different strategies." –Harriet

PLACE VALUE

54 CHALLENGES

Open-ended with multiple pathways to a correct answer!

Targeted ↔ Place Value & Number Sense

Write It #1
Draw 4 cards. Use the 4 cards to:
A. Make the largest 4-digit number possible. Write it.
B. Make the la… possible. W…
C. Make the la… possible. W…

Write It #3
Draw 6 cards. Use the 6 cards to:
A. Make the largest 6-digit number possible with an even number in the thousands place. Write it.
B. Make the largest 6-digit number possible with an odd number in the thousands place. Write it.
C. Find the d… numbers.

Choose and Write #3
…any 7 of the 10 cards:
…e a 7-digit number with the digit in the one …ons place twice as large as the digit in the …place. Write it.
…e a 7-digit number with the digit in the ten …sands place half as large as the digit in the …dreds place. Write it.
…mber that is a multiple of 5.

Sum It Up #3
Use 7 of the 10 cards.
A. Make a 7-digit number. It is a multiple of 10. The sum of its digits is 35 . Write the number.
B. Make a 7-digit number. It is odd. The sum of it's digits is 40. Write the number.
C. Make a 7-digit number. It is odd. The sum of it's digits is 28. Write the number.

Sum It Up #4
Use 7 of the 10 cards.
A. Make a 7-digit number. It is an even number. The sum of it's digits is 25. Write the number.
B. Make a 7-digit number. The sum of it's digits is

Write It #5
Draw 6 cards. Use the 6 cards to:
A. Make the largest 6-digit number possible with the number in the thousands place smaller than the number in the ones place. Write the number.
B. Make the largest 6-digit number possible with an odd number in the hundred thousands place and an even number in the tens place. Write the number.
C. Make the largest 6-digit odd number possible with a 9 in the hundreds place. Write the number.

Sum It Up #1
…e 7 of the 10 cards.
…Make a 7-digit number. The sum… 42. Write the number.
…Make a 7-digit number. The sum… 33. Write the number.
C. Make a 7-digit number. The sum… 30. Write the number.

Sum It Up #5
Use 8 of the 10 cards.
A. Make an 8-digit number. It is a multiple… The sum of its digits is 35 . Write the…
B. Make an 8-digit number. It is odd. T… it's digits is 40. Write the number.
C. Make an 8-digit number. It is odd. T… it's digits is 28. Write the number.

Write It #6

Name_____

Write It!
Task Cards

Task Card	Task Card
A. _____	A. _____
B. _____	B. _____
C. _____	C. _____
Task Card	Task Card
A. _____	A. _____
B. _____	B. _____
C. _____	C. _____

Sum It Up #2
…ds.
…7-digit numb… …ts 34. Write t…
…7-digit numb… …ts 28. Write t…
…7-digit numb… …ts 21. Write t…

Sum It Up #6
Use 8 of the 10 cards.
A. Make an 8-digit number. It is an even… The sum of it's digits is 30. Write the…
B. Make an 8-digit number. The sum of … 38. The number in the ten thousands … 4. Write the number.
C. Make an 8-digit n… 37. Write the num…

"Place value is such a problem for some students and your product is helping many of my challenged learners make sense of it. Thank you!"

-Robin K.

TEACHER AND STUDENT TESTED AND LOVED!

“Simply fantastic and highly engaging! Thanks for creating such an awesome product!”
-Adrienne C.

"I'm done, now what?" That question is answered with this product. I'm always looking for fun materials to use in math centers. Thank you for including the answer keys, too -- such a time-saver!”
-Nicole K.

"Another amazing purchase from your treasure trove of wonderful resources - these early finishers activities are perfect for my kiddos that need that extra challenge."
-Susanne

“You have created some great resources for math challenge activities! I now have an entire section filled with extension activities!”
-Lauren B.

"I wish I had found these six weeks ago."
–Peggy

TEACHER AND STUDENT TESTED AND LOVED!

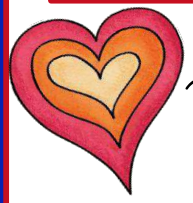
"These are great for all students as it asks them to apply solving problem skills, more than just computation/ concept skills."
-Caitlin

"I use one every morning as a warm-up activity just before math block! It can also be used as an assessment, observing students understanding as they justify their answer. Absolutely love it!"
-Zahra T.

"This activity is great to begin a lesson as a number talk. It engages the students to begin thinking mathematically. The children look forward to starting math with these."
–Christina

"I love your resources!! I have purchased many of them and my students just love them! Thank you for your hard work and sharing your amazing material with fellow educators."
-Susanne P.

"Also helped us with perseverance"
-Kimberly C.



Thank You!
-Leah