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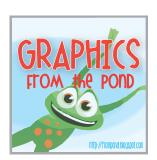
TEACHING IN THE *Fast Lane*FOR MANY DIFFERENT PRODUCTS!

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Table of contents

| To the teacher | 3 |
|-----------------------|----|
| Content Vocabulary | 8 |
| Forms of a Number | 12 |
| Write the Number | 19 |
| Solve It! | 26 |
| Stretch It Out! | 35 |
| Money Bags | 43 |
| QR Codes | 49 |
| Shade It! | 53 |
| Mystery Number | 58 |
| Build It! | 64 |
| Break It Down | 70 |
| Test Bridge Questions | 88 |

To the Teacher

- This product is meant to be a no frills, all action tool for cementing the concept of place value with students in preparation for standardized testing.
- Each activity can be completed in a variety of ways to fit your classroom needs.
- It was created with the following standards in mind:
 - TEKS
 - represent the value of the digit in whole numbers through 1,000,000,000 and decimals to the hundredths using expanded notation and numerals 4.2(B)
 - Common Core
 - CCSS.Math.Content.4.NBT.A.2 Read and write multidigit whole numbers using base-ten numerals, number names, and expanded form.
 - I have included activities for both expanded form and expanded notation

Teacher Tips

This resource can be used in a variety of ways:

- Individual Assessment
 - Any station within this resource can be used to informally assess a student. To complete an assessment, an individual student would complete the station on their own making sure to show their thinking on the recording sheet.

Partner Practice

- These stations are perfect for partner practice. By including the title page, station pieces, and recording sheets in one container (I use a Velcro sealed folder or plastic bag with zipper) students are able to practice the standards over and over again.
- For partner practice I ability group my students so that they are able to scaffold for one another.
- If using as partner practice stations I would recommend using a "3
 Before Me" or similar expectation where partner groups can help
 one another rather than requiring teacher assistance during small
 group time.
- The first time we use stations I explicitly explain my expectations and model proper station and partner etiquette. This pays off throughout the year.

Teacher Tips

This resource can be used in a variety of ways:

- Small Group Re-teach or Pre-teach
 - I love to use these stations in small group to accelerate or remediate student learning.
 - By using station activities instead of worksheets students are more engaged.
 - These stations are perfect for "gamifying" your small group time.
 - Instead of working in partners, the small group works together to solve each station with the teacher there for support.
 - When the teacher notices a misconception they pause play of the station to have a "number talk" with the small group.
 - This practice allows the teacher to triage student learning as they get peer practice.

prep recommendations

- Each activity is created in black and white to conserve color ink
 - Using colored paper to differentiate different parts in each activity will help students to stay organized.
- If you plan to use the activities for small group or partner activities, I would recommend laminating them for durability.

content vocabulary

- Content vocabulary is an important element of math.
- I keep this list of content vocabulary at the small group table for students to use as a word bank.
- We also add these words to our math journal and word wall.

content vocabulary

| whole number | Set of natural numbees are ter than zero used to count. Examples: 5, 709, or 1,000 |
|--------------------|--|
| decimal | Number that recresent points of a vhole recorded with a decimal point. Examples: 100.25 |
| digit | Any nume 10-9 |
| standard form | The representation of umber using digits. Example: 37 or 0.97 |
| word form | The apresenta and a number using words. kan les: four hundred thirty seven or ninety-seven hundred thirty seven hund |
| expanded form | To representation of a number using the sum of its place volues. Exchaples: 400+30+7 or 0.9+0.07 |
| expanded no to tio | The presentation of a number as a sum () its place values who e each term is shown as the digit's multiple of its place value. Example $(4 \times 00) \cdot (2 \times 1) \cdot (7 \times 1)$ or $4(100) + 3(10) + 7(1)$ |
| numeral | A symbol used to represent a number |
| order | Arrange from least to greatest or greatest it assets based on their value |
| CO IPQI ? | Consider the value of two numbers and use a symbol such as <, >, or = to determine which is greater |
| - 2° 0d | Three-digit grouping fruit bers continuing a ones, tens, and hundreds place |
| PLace Talue | The value of a digit based on Chication in a number |
| rounding | Making an estimation to the close t specified value |
| value | The amount that a number represents |

content wocabulary

whole number

standard forn.

expanded

retation

con pare

alue

decimal

vord form

numera!

perico

rounding

dign

expanded

form

order

place value

PLace value GSULary

one

ten

nundred

thousa

ten thousar ten millo

hundred thousand hundred million hundredth

Gillion

FORMS OF CHILD SET

Match the three forms of the number to such other.

Teacher suggestions Forms es a Number

- In this activity students a e asked to match the standard form, yord form, and expanded an atom form of a number.
- This activity combe used in a variety of ways
 - Small roup ith teacher guidance
 - A parti er act vity to practice
 - The endamily to assess
- An opt once cording sheet is included a held students accountable.
 I prefer to copy each of the card sets call ferent color of paper to solve.
 Valie.

Matel Jars

Ir a ded!

- Word form cards
 Standard form
 Cards
- L panded rotation cardsAnswer Key
- Recording sheet Not Included:
 - pencil

Twelve
million, three
hundred
sixty-five
thousand,
four

Fourteen and sixteen hundreaths

Seven billion, four hundred nineteen thousand, five hundred forty-two

Nine and three tenths

Nine
hundred

thirty

One
Incusand,
four hundred

sixteen

Twelve
thousand
four runaled
reventytime

Five hundred thousand,

Fiftynine

Sixty-seven thousand, three hundred fifty and eleven hundred

rive Lundred seventy six

Fourteen
thousand, five
hundred
thirty-two and

7,000,419,542 12,365,004 A 500,076 67,350.11 14,532.6

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1

15

1

| (1x10,000,000)+ (2x1,000,000)+ (3x100,000)+ (6x10,000)+ (5x1,000)+ (4x1) | _ |
|---|---|
| (9x100)+ | |

(1x10)+ (4x1)+ (1x0.1\+ (6x0.)1) (7x1,000,000,000)+ (4x100,000)+ (1x10,000)+ (9x1,000)+ (5x100)+ (4x10)+ (2x1)

(°×1)+ (3×0.1)

(9x100) (3x10)

(4x100)+ (1x10)+ (6x1) (1x10,000)+ (2x1,000)+ (4x166,1) (7×10) (3×1)

(x100,000) + (7x10)+ (6x1)

(5x1C)+ (9x1)

(6x10,000)+ (7x1,000)+ (3x100)+ (5x10)+ (1x0.1)+ (1x0.01) (5x100)+ (7x10)+ (6x1)

(1x10,000)+ (4x1,000)+ (5x100)+ (3x10)+ (2x1)+ $(6x0.1)^{16}$ Chinginthe Fast Larre LLC 2015-17

| Name | # | Date |
|--------|----------|------|
| 101110 | <i>D</i> | |

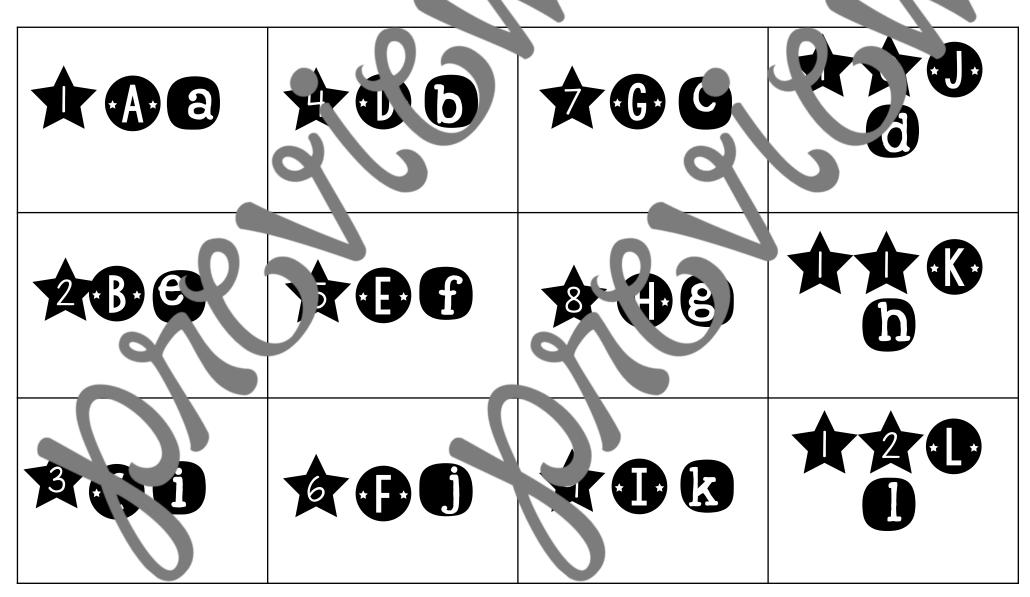
Forms of a number recording sheet

Record the number (word form), up percase letter (standard form,) and lowercase letter (expanded notation for each number in the order you mutch to em.

| 11 7111 | |
|---------|--|
| | |
| | |
| | |
| | |

Forms of a number Answer key

While students should have the same number, lowercase letter, and uppercase letter, they may be in any order.



Name _____

#____

Date _____

Test Bridge Questions

Caitlin saw 3,650 cars on your road in She wrote the number of cars expanded relation as

(3x1,000)+(6.100).

What is she misting?

a. (1)

b. (5x10c)

c. ~10)

c (5x1,00c)

What is the value on it four in the number 32,24, 798?

b. 400,000

(00)

d. 40,000

What pick e value is represented b, the numeral 6 in

4,65/,890

a. millions

b. thousands

c. Hundreds

a. hundred thousands

Bird. s ears are 3.20 centimeters to ... How would you represent the neight or her ears in expanded

form?

a. 3+2

b. 3+2+0

c. 3+0.2

d. 2+0.3

Answer key Test Bridge Questions

Caitlin saw 3,650 cars on your roal She wrote the number of cars expanded tation as

 $(3x1,000)+((\times100))$.

What is she ming?

a. ())

b. (5x10)

(5x1,000

3. What place value is represented **4.** Bilder's ear, are 3.20 centimeters tre nur ieral 6 in

4,007,890

a. millions

b. Thousands

c. hundreds

a. hundred thousands

2.What is the value on the in the number 32,24, 798?

10,700

400,000

100

40,000

to. He v would you represent the hel, ht or her ears in expanded

form?

a. 3+2

b. 3+2+0

c. 3+0.2

d. 2+0.3