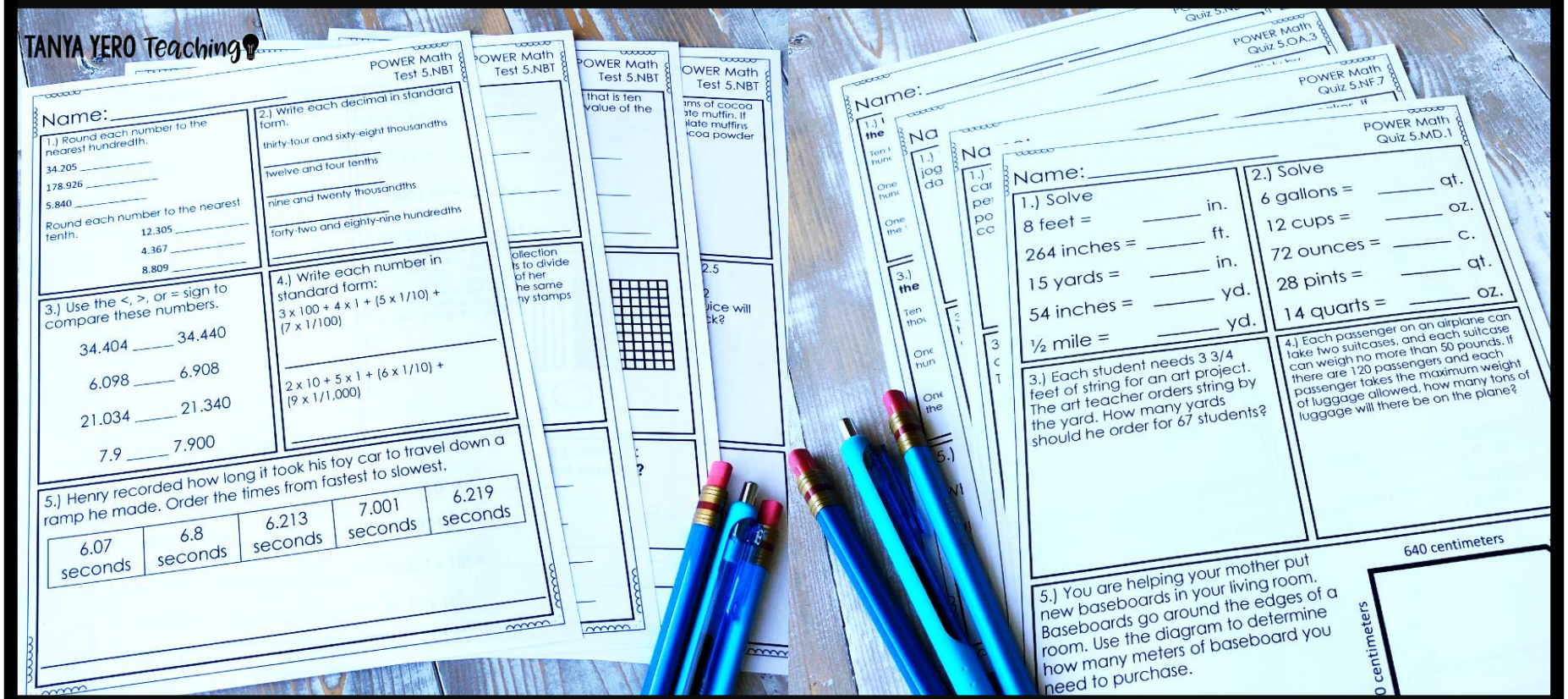
5TH GRADE POWER Math Assessments

Quizzes per standard * Pre/post tests per domain



Procedural & Conceptual Understanding

POWER Assessments

What is included?

- 225 procedural and conceptual based math questions
- Quality prompts and word problems that promote rigorous thinking
- Space for showing work and answers
- 5 questions per standard.
- Combine standards to make longer quizzes
- 20 questions per domain
- Easy prep
- Answer Keys

POWER Assessments

Sample Assessments

Name: _____ POWER Math Quiz 5.NBT.1

1.) **Using the number 439,607, give the number that is:**

Ten times as much as the value of the hundreds place: _____

One-tenth as much as the value of the hundred thousands place: _____

One hundred times as much as the value of the thousands place: _____

2.) **Circle TRUE or FALSE:**

TRUE or FALSE: 6,000 is 60 times as much as 60

TRUE or FALSE: 6,000 is 10 times as much as 600

TRUE or FALSE: 6,000 is 60 times as much as 100

3.) **Using the number 930,238, give the number that is:**

Ten times as much as the value of the thousands place:

4.) **Circle TRUE or FALSE:**

TRUE or FALSE: 50,000 is 50 times as much as 1,000

Name: _____ POWER Math Quiz 5.NBT.4

1.) Round these decimals to the nearest ones place.

54.69 _____ 0.8 _____

134.359 _____ 16.03 _____

7.809 _____ 28.46 _____

5.1 _____ 231.70 _____

2.) Round these decimals to the nearest tenths place.

484.69 _____ 0.438 _____

109.459 _____ 4.332 _____

75.63 _____ 5.656 _____

1.654 _____ 20.8 _____

3.) List the numbers that equal 13.4 when rounded to the nearest tenth.

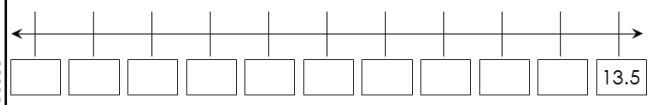
4.) **In each line, use <, >, or = to show the relationship between the two numbers.**

24.305 rounded to the nearest ten ____
24.305 rounded to the nearest tenth

17.380 rounded to the nearest hundredth
____ 17.380 rounded to the nearest tenth

5.409 rounded to the nearest tenth ____
5.409 rounded to the nearest hundredth

5.) Patrick was asked to round 13.46 to the nearest tenth. He started creating a number line to help him. Complete the number line for Patrick. Plot 13.46 on the number line. What is 13.46 rounded to the nearest tenth?



Name: _____ POWER Math Test 5.NBT

1.) Round each number to the nearest hundredth.

34.205 _____

178.926 _____

5.840 _____

Round each number to the nearest tenth.

12.305 _____

4.367 _____

8.809 _____

3.) Use the <, >, or = sign to

Name: _____ POWER Math Test 5.NBT

6.) Solve.

$5 \times 10^3 =$ _____

$12 \times 10^5 =$ _____

$2 \times 10^2 =$ _____

7.) Solve.

$5{,}000 \div 10^2 =$ _____

$840 \div 10^1 =$ _____

$731{,}000 \div 10^4 =$ _____

$1{,}000{,}000 \div 10^3 =$ _____

9.) Mrs. Abidi has a stamp collection with 1,008 stamps. She wants to divide the collection so that each of her

Name: _____ POWER Math Test 5.NBT

11.) Write the number that is $\frac{1}{100}$ as much.

45,000,000 = _____

37,000 = _____

209,000 = _____

12.) Write the number that is ten

13.) Write the number that is $\frac{1}{10}$ of the underlined number.

40<u>3</u>,596 _____

33,<u>4</u>06 _____

5<u>8</u>3,384 _____

15.) Mrs. Williams gives her studer
1/10 of 6,000 is the same a

What is the answer? Explain.

_____

_____

_____

Name: _____ POWER Math Test 5.NBT

16.) Complete each statement below.

321,874 = _____ thousands

24.6 = _____ tenths

9,000 = _____ tens

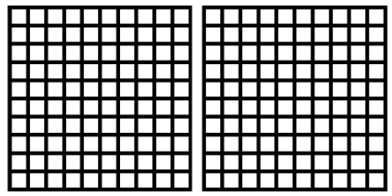
25,000 = _____ hundreds

17.) A bakery uses 18 grams of cocoa powder in each chocolate muffin. If they produce 225 chocolate muffins each day, how much cocoa powder will they need?

18.) You begin a camping trip with 5.6 liters of water. On each of the three days of the trip, you drink 1.2 liters of water. Before you head home, you add .9 liters of water. How much water do you have now?

19.) An airplane stocks 12.5 ounces of juice for each passenger. If there are 62 passengers, how much juice will the airplane need to stock?

20.) Create a model to show $1.8 \div 0.3$.



$1.8 \div 0.3 =$ _____

WHAT ARE POWER PROBLEMS?

PURPOSEFUL - These problems are meant to keep students focused, while strengthening initiative and perseverance.

OPPORTUNITIES - These prompts can be used in a variety of ways. P.O.W.E.R problems can be used to introduce a lesson, spiral review, or as formative assessments.

WITH

ENGAGEMENT - Problems are real word applicable and designed to hook students with interest and presentation. Complexity of problems promotes problem solving skills.

RIGOR - Tasks are specifically designed to challenge students and assess conceptual understanding of curriculum versus procedural understanding. Students will need to apply more than just a "formula."

WHY USE POWER PROBLEMS?

BUILD STAMINA WITHIN YOUR STUDENTS

MORE THAN JUST A COOKIE CUTTER TEXTBOOK APPROACH - P.O.W.E.R problems are designed to challenge your students with their open ended presentation. Majority of problems that come from textbooks and workbooks assess procedural understanding of curriculum. Some textbooks even provide step by step instructions where the textbook is thinking for the students and taking away that "productive struggle" for children. When we rob students of that event, we rob them of their ability to reason, problem solve, and see beyond a standard algorithm. P.O.W.E.R problems are meant to show students that there are different ways to answer one question in math. With these tasks students take ownership and are part of the problem solving process versus filling in blanks in a textbook.

HOW TO USE POWER PROBLEMS

YOUR KIDS. YOUR CHOICE. FLEXIBILITY.

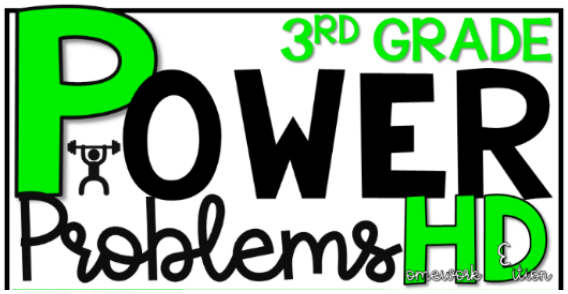
TO INTRODUCE A LESSON - P.O.W.E.R problems can be used to introduce a new skill. In this case your students will experience a "productive struggle." Their problem solving skills and prior knowledge will kick in. Often times most of my students will have the incorrect answer or no answer at all. I then have someone explain their method/reasoning and allow my students to critique their peer's answer. This makes for great accountable talk discussions. If I see that most students do not have an answer I will assist the class in getting to a specific point and then allow them to finish independently.

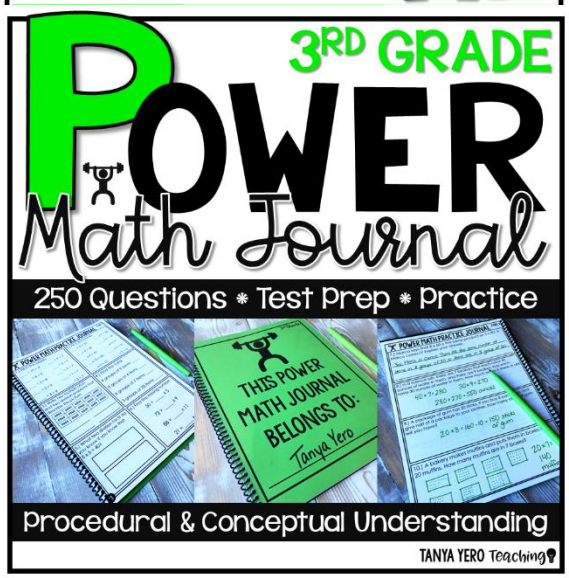
SPIRAL REVIEW - Avoid your students forgetting standards by using P.O.W.E.R problems to spiral review previously taught lessons.

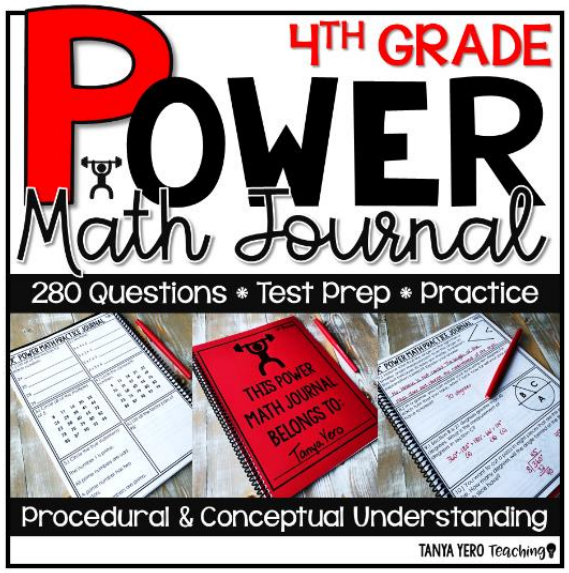
FORMATIVE ASSESSMENTS - You can use these problems to assess mastery and levels of understanding.

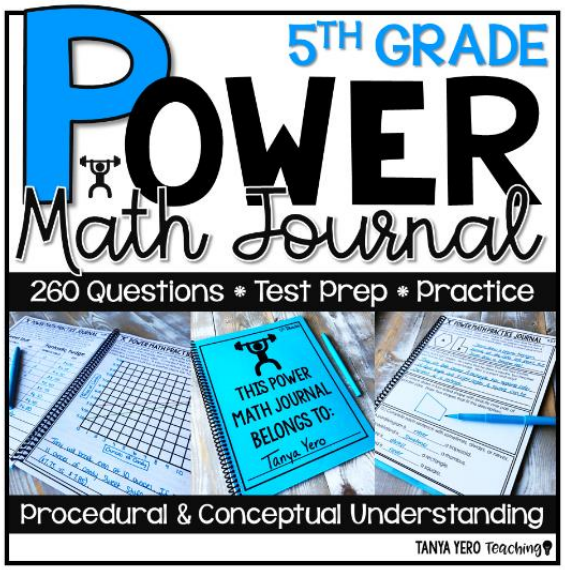
Don't miss out on more POWER Problems!

TANYA YERO Teaching









- RIGOROUS QUESTIONS
- CONCEPTUAL THINKING
- OPEN ENDED QUESTIONS
- TEST PREP RESOURCES