

POWER MATH

Reference Mats

5TH GRADE

Differentiated

3 Levels of Work

LOW PREP!

POWER Math Reference Mat
GROUP A 5.MD.5

Target Skills:

- Finding the volume of rectangular shapes
- Finding the total volume of multiple objects

What is the total volume of all the objects?
Total Volume: _____

POWER Math Reference Mat
GROUP B 5.MD.5

Target Skills:

- Finding the volume of rectangular shapes
- Finding additive volume

Find the volume of each shape below.

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POWER Math Reference Mat
GROUP C 5.MD.5

Target Skills:

- Finding additive volume of irregular shapes
- Volume word problems

Find the volume of each object below.

-
-
-
-

#1

#2

- A baker is prepping a cake for a birthday party. The base layer of the cake has a volume of 36 in.^3 . The second layer is $\frac{1}{4}$ the size of the bottom layer, and the top layer is $\frac{1}{3}$ the size of the middle layer. What is the total volume of the birthday cake?
- The Greene Family purchased a swimming pool with a length of 25 ft. and a width of 32 ft. The depth is 5 ft. What is the volume of the swimming pool?
- An average city issued trash can hold 50 gallons of trash. What could be the dimensions of the trash can?

TANYA YERO Teaching

MEASUREMENT * TAKE THE GUESS WORK OUT OF ROTATIONS!

What are **POWER MATH** Reference Mats?

Guided Math Reference Mats are designed to assist teachers during math rotations. Housed with specific target skills for each level in your class, Guided Math Reference Mats come with various problems for you to give to your students when working in small groups. Group A is for students who are in need of remediation, Group B is for students working on grade level, and Group C is for students who need enrichment.

Design of each mat:

Each mat comes with target skills that are designed to match the needs of each student level in your class. There are questions/problems for each target skill which can be given to your students.

POWER MATH Reference Mat
GROUP A 5.MD.5 Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.

Target Skills:
1.) Finding the volume of rectangular shapes
2.) Finding the total volume of multiple objects

Find the volume of each shape below.

1.) $\frac{1}{2}$ in., 5 in., 5 in.

2.) 7 cm., 12 cm., 3 cm.

3.) 20 mm., 15 mm., 18 mm.

4.) 5 in., 8 in., 5 in.

5.) 3 in., 3 in., 11 in.

What is the total volume of all the objects?
Total Volume: _____

4 in., 9 in., 10 in.

7.5 in., 14 in., 5 in.

5 in., 5 in., 15 in.

1 in., 1 in., 2 in.

This purchase contains 15 Guided Math Reference Mats for all the measurement standards for 5th grade. For each standard there are three mats for different ability levels in your classroom. Designed to meet the needs of your students, these mats can be used during small group instruction or anytime you need specific examples aligned to remediation, on grade level work, or enrichment. Answer keys are included. Materials needed: whiteboards, expo markers, and erasers OR paper and pencils.

SAMPLE POWER MATH MATS

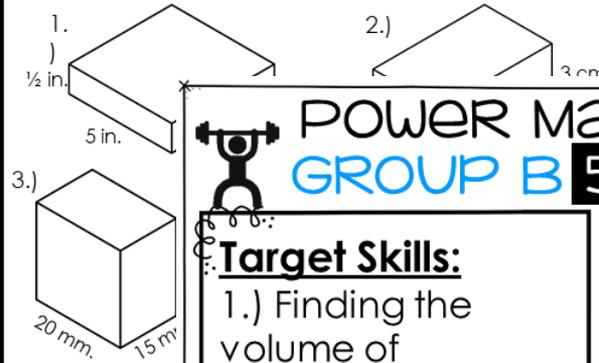
POWER Math Reference Mat GROUP A 5.MD.5

Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.

Target Skills:

- 1.) Finding the volume of rectangular shapes
- 2.) Finding the total volume of multiple objects

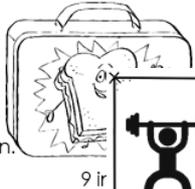
Find the volume of each shape below.



#1

What is the total volume of all the objects?

Total Volume: _____



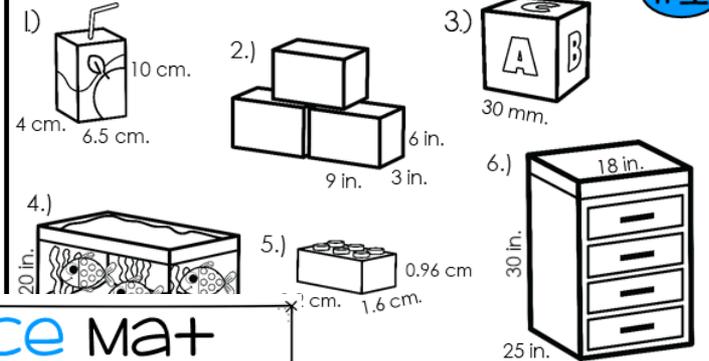
POWER Math Reference Mat GROUP B 5.MD.5

Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.

Target Skills:

- 1.) Finding the volume of rectangular shapes
- 2.) Finding additive volume

Find the volume of each object below.



#1

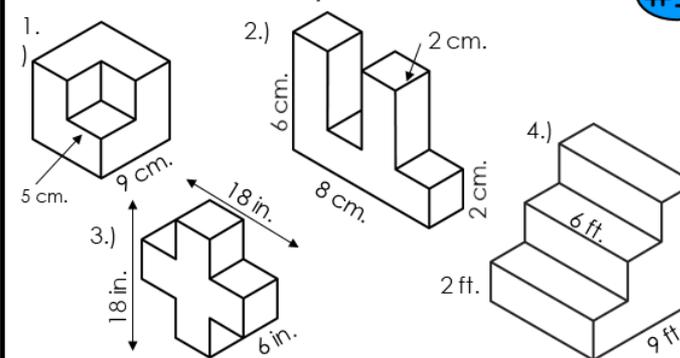
POWER Math Reference Mat GROUP C 5.MD.5

Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.

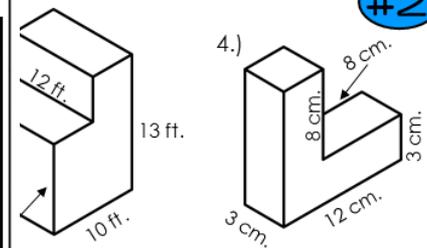
Target Skills:

- 1.) Finding additive volume of irregular shapes
- 2.) Volume word problems

Find the volume of each object below.



#1



#2

1.) A baker is prepping a cake for a birthday party. The base layer of the cake has a volume of 36 in.^3 . The second layer is $\frac{1}{4}$ the size of the bottom layer, and the top layer is $\frac{1}{3}$ of the size of the middle layer. What is the total volume of the birthday cake?

#2

2.) The Greene Family purchased a swimming pool with a length of 25 ft. and a width of 32 ft. The depth is 5 ft. What is the volume of the swimming pool?

3.) An average city issued trash can hold 50 gallons of trash. Would could be the dimensions of the trash can?

Don't miss out on more **P**OWER MATH FUN!

 RIGOROUS
QUESTIONS

 TEST PREP
RESOURCES



 CONCEPTUAL
THINKING

 OPEN ENDED
QUESTIONS

3RD GRADE
POWER
PROBLEMS

4TH GRADE
POWER
PROBLEMS

5TH GRADE
POWER
PROBLEMS

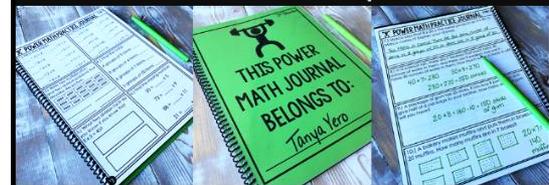
3RD GRADE
POWER
Problems **HD**

4TH GRADE
POWER
Problems **HD**

5TH GRADE
POWER
Problems **HD**

3RD GRADE
POWER
Math Journal

250 Questions * Test Prep * Practice

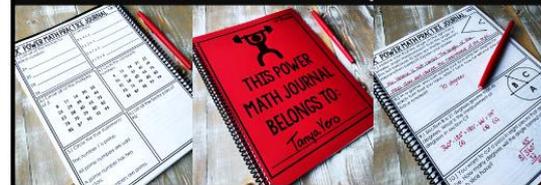


Procedural & Conceptual Understanding

TANYA YERO Teaching

4TH GRADE
POWER
Math Journal

280 Questions * Test Prep * Practice

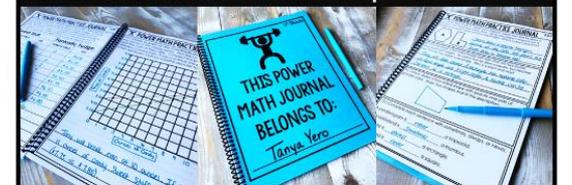


Procedural & Conceptual Understanding

TANYA YERO Teaching

5TH GRADE
POWER
Math Journal

260 Questions * Test Prep * Practice



Procedural & Conceptual Understanding

TANYA YERO Teaching