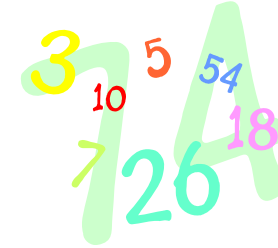


WHAT CAN PARENTS DO AT HOME?

- Continue the message that “Math makes sense.”
- Play board games. Have your child keep score.
- Get a deck of cards. Play games such Top-It (War) for any operation +, -, x (Objective: get most cards How: draw two cards, do operation, highest answer wins all cards in that hand)
- Build number sense. Talk about numbers: ex: 17 is odd, it is 2 more than 15, it is 3 away from 20, it is almost a double $8 + 8 + 1$; break apart numbers ex: “How many ways can you make 17?”
- Recognize the value of your child working on the internet and playing computer games, etc.
 - <http://www.funbrain.com>
 - <http://www.numbernut.com>
 - <http://www.aplusmath.com>
 - <http://www.math.com>
- Involve your children in real life tasks that involve math. Measure the garden fence, set the timer for dinner, round prices as items are placed in the shopping cart, etc.
- Homework:
 - Provide a location and time to complete tasks.
 - Ask questions: “Does this remind you of other problems you’ve worked on? Where do you think you should start? What is the problem asking you to do? What have you come up with so far? How did you find your answer? Why does that work? Is there another way? How do you know it solves the problem?”

*See and talk about math in the world around you.
Numbers, shapes, measurements,
clocks, money...it's everywhere!*

Regional School District No. 17 Haddam Elementary School



MATHEMATICS

Fourth Grade

MATH MAKES SENSE!

Teachers believe that math makes sense and provide a variety of math opportunities for students in school daily.

- whole class, small group and individual lessons
- number sense, computation, problem solving, math games

CURRICULUM AND RESOURCES

Regional School District No. 17 curriculum is aligned with Connecticut State Standards and recommendations of the National Council of Teachers of Mathematics (NCTM). The entire curriculum and the “Power Standards” are available on the district website

(<http://www.rsd17.org>) under the tab for Curriculum and Instruction. The school district has joint usage of two texts for elementary grades: *Investigations* and *Scott Foresman-Addison Wesley Mathematics*.

- <http://investigations.terc.edu/>
- <http://www.pearsonschool.com>

CONTACTS Communicate math concerns with your child’s teacher. Each elementary school also has Math Support Teacher(s) available to assist teachers and students. At HES, contact Heather Rigatti at 345-4551 or rigatti66@rsd17.org.

POWER STANDARDS

The Power Standards answer these questions:

- **WHAT WILL MY CHILD KNOW AND UNDERSTAND BY THE END OF EACH GRADE?**
- **HOW DO I KNOW WHAT MY CHILD IS LEARNING?**
- **WHAT AREAS ARE ASSESSED ON EACH REPORT CARD?**

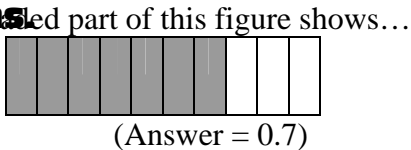
GRADE 4 POWER STANDARDS

Solves simple one-step algebraic equations.



- EX: If $\square \square = \triangle \triangle$, then $\square \square$ is equal to how many triangles? (Answer = 3 triangles)

Relates decimals (0.01-2.99) to pictorial representations.



Knows multiplication and division facts.

- EX: All times tables and corresponding division facts.
- EX: $4 \times 8 = 32$ $8 \times 4 = 32$ $32 \div 4 = 8$ $32 \div 8 = 4$

Determines a reasonable estimate and describes the strategy used.

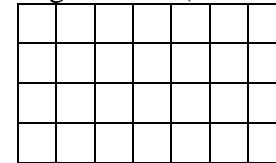
Solves problems involving the conversion of measures of time.

- EX: “I watched the circus show for 1 ½ hours. How many minutes is that?”

Makes change using bills and coins for purchases less than \$10.

Estimates, measures and determines perimeter and area.

- EX: “Mrs. Johnson is making a garden. It is 8 feet long and 4 feet wide. She wants to put a fence around it. What is the perimeter of her garden?” (Answer = 24 feet)



Estimates, measures and draws lengths to the nearest ¼ inch.



Identifies congruent figures.

- EX: Which figure is congruent to this one? (Answer: Congruent is same size and shape, but may be in a different orientation.)

Solves problems from data in graphs, tables and charts.

Solves probability problems, including justifying answers. the likelihood of events. Tools might include spinners, items in a bag,

Solves multi-step problems.