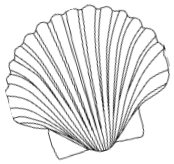
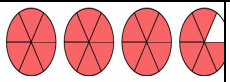
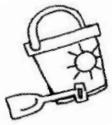
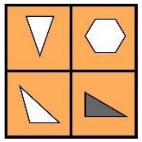
JULY Problem of the Day *(grades 4-5)*

*Scroll down for further info

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	What number is in the tenths place? 281.45 What is the value of the 5?	Find ⅓ of 30. Find ¼ of 32.	*Story Time!	Which one doesn't belong? **Why**? (there isn't ONE right answer)	*Friday Fun!	*Take it Outside!
*Sorting Day!	What number is 69 less than 9x9?	A square has an area of 100sq ft. What is the length of each side? What is the perimeter?	$9\frac{2}{5} + 6\frac{7}{10} =$	Order from least to greatest 0.0790 0.0709 0.07 0.0097 0.7090	*Friday Fun!	*Take it Outside!
*Breakfast Exploration!	José woke at 8:15, brushed is teeth for 3 minutes, ate breakfast for 25 min, went to the beach for 3 and ½ hours, and headed home. What time did he leave the beach?	625 kids play sports. If there are 125 kids on each team, how many sports are there?	*Story Time!	$\frac{4}{8} + \frac{5}{8} = ?$ Can you write the answer as a fraction and a mixed number?	*Friday Fun!	*Take it Outside!
*Shape Day!	How much more is 7x6 than 5x5?	<, > or = ? 2/3 ▢ 4/5 2.75 ▢ 2 3/4	Which one doesn't belong? **Why**? (there isn't ONE right answer)	Mia buys a hamburger for $3.45, fries for $2.65, a soda for $2.25. She pays with a $20 bill. What change does she receive?	*Friday Fun!	*Take it Outside!
*Baking Day!	Complete the sequence 1, 2.1, 3.2, __, __	 Write as a fraction and a mixed number.	*Story Time!			

August Problem of the Day *(grades 4-5)* *Scroll down for further info

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				$5\frac{4}{6} - 1\frac{1}{6}$	*Friday Fun!	*Take it Outside!
*Sorting Day!	Amy had 16 eggs but used ¼ of them to bake a cake. Does she have enough to make a ½ dozen egg omelet or breakfast?	What number is 34 less than 7x8?	Find the area of a rectangle with length of 9 and width of 3. What is the perimeter?	How would you add 58 + 58 mentally? What about 128 +128?	*Friday Fun!	*Take it Outside!
*Breakfast Exploration!	Find 3 equivalent fractions for 4/6.	128 ÷ 8 = ? 128 ÷ 4 = ? 128 ÷ 2 = ? What do you notice?	*Story Time!	Order from least to greatest. 0.0912 0.1029 0.091 0.1092	*Friday Fun!	*Take it Outside!
*Shape Day!	Which one doesn't belong? 	What's the general rule for these terms? What comes next in the sequence? $\frac{1}{2}$ $\frac{4}{5}$ $\frac{5}{4}$ 2	How do you find $2\frac{3}{4} + 1\frac{1}{5}$?	Divya makes $93 in 6 weeks doing neighborhood chores. How much does she make per week? 	*Friday Fun!	*Take it Outside!
*Baking Day!	$2\frac{1}{4} + 7\frac{2}{10} =$ $6\frac{1}{2} + 4\frac{4}{5} =$	Ben had 9 pizzas with 8 slices each. 59 were eaten. How many slices are left?	*Story Time!	Elijah's family leaves for vacation at 5:30 am and arrives at 9:15 pm. How long did it take them?	*Friday Fun!	*Take it Outside!

Please note: *The problems in these calendars are for practice purposes. Some may be less challenging and others a bit difficult, depending on the age of your child. Talking through the problems is always helpful! Having paper or a journal nearby will allow your child to draw pictures and explain their thinking. For an additional challenge, have your child make up his/her own problems of the day based on what is on the calendar.*

Sorting Day: Give your child something to sort (socks, coins, buttons, seashells, Lego bricks). Ask him/her HOW he/she sorted them. Color? Size? Pattern? Denomination? Etc. You can also give older students sorted items and ask them to determine how they are sorted. Ask them to name things in the real world that are sorted into categories (food in the market, clothes in a store, books in a library. Why are they organized that way?

Breakfast exploration: Explore the kitchen.

- How many eggs are in a dozen? Count. What about 2 dozen? Three dozen?
- What numbers do you see on the orange juice or milk carton? How many calories are in one serving? How about 2 servings? Or 3?
- How long does it take to make breakfast?
    - To make a waffle or toast in the toaster? (use a timer/clock)
- Is the oven on? What temperature?
- Which is heavier: an egg or an English muffin? an apple or a banana? How do you know?
- Compare the size, shape, weight, and even material of different utensils (spatula, whisk, spoon)

Baking Day: You don't actually HAVE to bake, but let your child explore with measuring spoons and cups anyway.

- How many teaspoons make up a tablespoon? (use water or something granular like sugar or flour)
    - have your child guess (estimate) and then check
- How many ½ cups make up 1 cup (a whole)? 1/3 cups? ¼ cups?
    - What do you notice?
    - How many cups are in the bag of flour/sugar in the cabinet? Guess and then read the label.
    - Can you use a 2/3 cup to make 2 cups? How about using ¾ cup to make 3?
- Look at a stick of butter (if you have it) and see how many "slices"/tablespoons make up the whole.
- How many chocolate chips are in a bag? Guess and then check the label for approximate amount.

Shape Day: do a one-time scavenger hunt or continue the hunt throughout the day.

- Find an object shaped like a rectangle, square [quadrilateral] (front of a book, painting, window)
    - Be sure to remind your child that a rectangle or a square is a 2-d (flat) shape and when put together with other flat shapes it can make a rectangular prism or a cube (and more). *They don't need to memorize the terms, just understand that there are flat 2-d shapes and there are 3-D shapes
    - For older students, challenge them to find prisms (3-D shapes).....cubes, rectangular prisms, pyramids, square pyramids, triangular prisms.
- How many triangles can you find in the house? How many circles, spheres, etc.?

- OR set a goal for the day. Today we are going to find 5 triangles, 5 rectangles, 5 squares, etc. And challenge them to find different sizes of the same shape. Older students can find the 3-D shapes mentioned above.

Friday Fun: Play a game, do a puzzle, try a brain teaser

- Work on Sudoku puzzles…these are for kids
- Magic triangles: try to arrange the numbers 1-9 in the triangle so that the sum of the numbers on all sides are equal
  - For the small triangle, arrange the numbers so that the sum of each side equals 9. There are also solutions for 10, 11 and 12.
  - For the large triangle [**developmentally appropriate for older students**] arrange the numbers so that the sum of each side equals 17. You can also find solutions for 19, 20, 21, and 23.
- Play a card game, a dice game (add and subtract race). If you have forgotten how to play, there are tons of resources online.

Story Time: You can do these problems anytime of the day! They aren't just for bedtime.

- Head to this GREAT site.
  - Choose the "Today's Fun Math" tab at the top and talk math!

Take it Outside: Play, play, play!

Here are a few ideas to get you started:

- Make a hula hoop clock to review time related problems g
- Build 2-D shapes with sticks (or build 3-D with string for a challenge)
- Have a 2-D shape scavenger hunt (Want more of a challenge? Look for 3D shapes instead!)
  - Draw findings in a math journal
- Draw a number line with chalk. Pick a number to have your child start on. Then have him/her take a certain number of hops on the number line. Where do you land?
- Practice measurement in your flower bed or garden
- Heading to the beach? Use sea shells for counting, sorting or a fun memory game
- Keep track of time- either for a short period (a jog, a walk) or use elapsed time to keep track of the day's events(start at 8:15, drive to the beach for 15 minutes, stay for 2 hours….what time will you be leaving?)
- BUILD- have materials available for child to tinker with outside. Send them out with some string, paper and pencil and let them design something using items like twigs, rocks, leaves, etc.