

Choose three of the following activities to complete this summer for math. It must be three in a row, column, or diagonal. Due the first Friday of school.

<p>Logic Puzzle (on page 2)</p>	<p>Cryptogram (page 3)</p> <p>Tips for solving cryptograms (page 4)</p>	<p>You get a summer job that pays \$13.15 per hour. You are looking forward to your first paycheck, but you have been warned about deductions.</p> <ul style="list-style-type: none"> Federal Income tax 11.6% FICA 6.2% Medicare 1.45% State tax 4% Local tax 0.1% <p>If you work 20 hours per week, and you get paid every two weeks, how much is your first paycheck? How much will you earn in the seven weeks you work over the summer?</p>
<p>Math Journal</p> <p>Complete one of the following items:</p> <p>A,. Write a humorous poem describing what it would be like to live in a world without numbers</p> <p>B. Write a humorous poem describing how our lives would be different if we didn't have any round objects.</p> <p>C. Using math terms and their definitions, create a crossword puzzle with at least ten clues</p>	<p>Summer math review (tutor) If you will be tutoring for math this summer, please have your tutor sign this box and record the number of hours they worked with you.</p> <p>Tutor Signature:</p> <p>Tutoring hours:</p>	<p>Collect and graph the following data: High/Low temperatures in Louisville over two consecutive weeks.</p> <p>Explain why the graph you chose was the most appropriate for your data. What inferences can you make based on your graph and why would this be important to know?</p>
<p>Congratulations! Your family just rescued a two-year old lab. Predict a budget for your family's newest member. Then create an expense list for your pet or the year.</p> <p>(ex, well vet check, vaccinations, food, flea/tick treatments, toys, boarding, etc.)</p> <p>It would be a good idea to include a small emergency fund for accidents/injuries. Research prices either at the store or online. What was your prediction per month? What was the monthly budget based on your research? Write a paragraph detailing what you learned about the expenses of having a pet.</p>	<p>Tessellations!</p> <p>View the video below (up to the 3 minute and 40 second mark) and take notes! Then create your own tessellation masterpiece.</p> <p>You must use at least two shapes cut out from food boxes or other common household items.</p> <p>https://www.pbs.org/video/tessellations-nqvqgf/</p>	<p>Dad went to the ATM on Wednesday of spring break and withdrew some money. On Thursday morning my brother borrowed half of Dad's money to open a checking account, because he was short of money. On Friday I needed some money for an activity, so I borrowed half of what remained. My sister came along next and borrowed half of Dad's remaining money. Dad went to gas up the car and used half of the rest of his money and wondered why he had only \$15 left. How much money did he start with in his wallet?</p>

THE STORY

Five lions named Numba, Dimba, Samba, Jamba and Wilbur were 10, 9, 8, 4 and 2 years old. One day they decided to have a contest to see who could eat the most meat at one time. They ate 60, 50, 40, 30 and 20 pounds at one sitting. Later, they all chased different animals just for fun; they chased a gnu, a zebra, a warthog, a gazelle or a hippo. Based on the clues, match the lions with their ages, meat-consumption totals and animals they chased.

THE CLUES

1. The oldest lion ate half as much as the gnu-chasing youngest lion, and the oldest lion chased a gazelle for fun.
2. The lion, which was twice as old as Samba, chased a zebra and ate the least amount of meat.
3. The second-oldest lion ate the second most amount of meat and chased a warthog for fun.
4. Numba was twice as old as Jamba, and Numba ate twice as much meat as Jamba.
5. Dimba didn't eat 50 pounds of meat.

Numba	Dimba	Samba	Jamba	Wilbur
10 years old	10 years old	10 years old	10 years old	10 years old
9 years old	9 years old	9 years old	9 years old	9 years old
8 years old	8 years old	8 years old	8 years old	8 years old
4 years old	4 years old	4 years old	4 years old	4 years old
2 years old	2 years old	2 years old	2 years old	2 years old
60 pounds of meat	60 pounds of meat	60 pounds of meat	60 pounds of meat	60 pounds of meat
50 pounds of meat	50 pounds of meat	50 pounds of meat	50 pounds of meat	50 pounds of meat
40 pounds of meat	40 pounds of meat	40 pounds of meat	40 pounds of meat	40 pounds of meat
30 pounds of meat	30 pounds of meat	30 pounds of meat	30 pounds of meat	30 pounds of meat
20 pounds of meat	20 pounds of meat	20 pounds of meat	20 pounds of meat	20 pounds of meat
gnu	gnu	gnu	gnu	gnu
zebra	zebra	zebra	zebra	zebra
warthog	warthog	warthog	warthog	warthog
gazelle	gazelle	gazelle	gazelle	gazelle
hippo	hippo	hippo	hippo	hippo

DISNEY MOVIES

CRYPTOGRAM 1

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z

10 1

20 15 16 25

19 18 11 8

20 11 18 7 9

1 16 18 22 9 8

25 15 5 8 25 15 11 5

18 20 10 17 8 16 4 12 9

25 26 9 16 4 15 22 21 4 22 17

16 18 2 5 18 22 2 25 26 9 25 11 18 14 1

25 26 9 12 15 3 18 22 2 25 26 9 26 15 10 22 2

Tips for solving Cryptograms

Tip 1

The first tip is that all of these are movie titles.

As a suggestion, read over the titles of any movies you have in your family's movie collection.

Are there any patterns or words or location of words that are common to many of the movie titles?

One thing that might be noticed is that **the word "The"** is a common word in movie titles, and **often the first word of the title**.

If it's in the **middle** of a title, oftentimes it will be **preceded by the word "and"**, as in "The Fox and the Hound".

Tip 2

Another thing to notice would be **one letter words**.

A one letter word is most always going to be **"A" or "I"**. It could also be "O" but that is much rarer.

Since these are movie titles, which letter would be most likely in a title.

Tip 3

Another tip would be to look at any **apostrophes**. The most common letters after an apostrophe would be **"S" or "T"**.

Tip 4

Since this is all about pattern recognition, suggest to your kids that they take note of any words that are the same or similar.