Lesson 10

- Solve the word problems:
 - a) Michael had *n* red balloons and *m* blue balloons. He shared these balloons among his 4 friends equally. How many balloons did each of his friends get?
 - b) Katie caught **b** fish and Andrew caught 3 times more than Katie. How many more fish did Andrew catch?
 - c) Andrew had *d* dollars. How much money does he have left after buying 4 ice creams at *x* dollar each?
 - d) Sophia has *c* notebooks. In April she gave away
 b notebooks. In May she donated twice as many as in April. How many notebooks does she have left?



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Analyze and solve the equations:















Long Division with Remainder

Write one digit per cell.

To subtract the biggest multiple from the dividend write it underneath the dividend.

Keep the 1's decimal places, 10's, etc in the same column.



Make sure the remainder is smaller than the divisor!



Calculate via long division:



7	2	6	





10 Foxy Tail wants to buy chocolate for all the brothers. He has 50 mice pennies. A chocolate bar costs 9 mice pennies.

- a) How many chocolate bars can he possibly buy?
- b) How much money will he spend on chocolate if he buys as many bars as possible?
- c) How much money will he have left after buying as many bars as he can?



11	Take a look at the Cat Island Senate. It has three members: Mr. Red, Mr. White and Mr. Brown.Today they got together to discuss some important issues about Cat Island cheese supplies. They are wearing red, white, and brown togas.	
	<i>Mr. Red:</i> Did you notice that the colors of outogas are different from our last names?<i>The person in white toga:</i> Yes, you are right.Can you tell who is wearing which toga?	ur
12	Four brothers played soccer and accidentally broke a window in Mr. Brown's house. The police arrived and obtained the following testimony: <i>LJ</i> : Foxy Tail did not do it. <i>FT</i> : It was either Jake the Mouse or Pop Eye Which or the brothers broke the window?	
13	 The four brothers were talking about ages of neighbor cats: <i>LJ</i>: Mr. Red is older than Mr. Brown. <i>FT</i>: Mr. Grey is younger than Mr. Yellow. <i>JM</i>: Mr. Yellow is older than Mr. Red. Only one of them lied. 	
6 0	Who is the oldest?	Who is the youngest?



- 3. Find $\{Q, T\} =$ _____
- 4. Connect points P, Q, R, T.

Congratulations, you've constructed a kite!

14	Look at the rhombus <i>ABCD</i> . Its diagonal sides with a ruler:	onals intersect at point W . Measure its
	<i>AB</i> =cm <i>BC</i> =	_cm
	$ CD = \cm$ $ AD = \$	cmA
	Classify the angles as acute, obtuse,	or right:
	∠D AB is	
	ZAWD is	
	∠CB A is	
	ZCWB is	∠CBD is
	∠ ABD is	∠DWC is
	Do you see any axes of symmetry?	
	Coordii	nates and Motion
15	Moving point K_1 four cells right prod point K_2 .	luces
		$\underbrace{4 \text{ cells}}_{\bullet} \rightarrow \bullet$
	a) What do you notice about the coordinates of the points K_1 and K_2	K ₂ ?
	b) The motion of the points A_1 and B_2 produces points A_2 and B_2 respect Plot the points A_2 and B_2 and find	$\begin{array}{c} 10 \\ B_{1} \\ ively. \\ their \end{array}$
	coordinates.	5 + 4 - K (6 - 4)
	c) What do you notice about the coordinates of A_2 and B_2 ?	$K_{1}(2, 4)$
	d) What do you think will happen to coordinates of a point that moves the left?	the to $A_{I}(,)$ 10
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