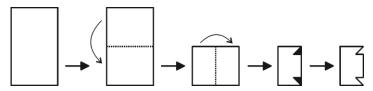
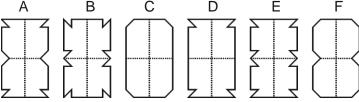
Logic Challenges Student Sheet

1. _____ A rectangular sheet of paper is folded twice and then cut, as shown below. All fold lines are dashed, and the portion that is to be cut away is shaded.

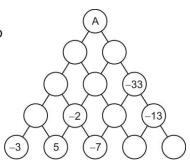


Which of the following drawings (A, B, C, D, E or F) shows what the paper looks like when it is unfolded after the cuts?

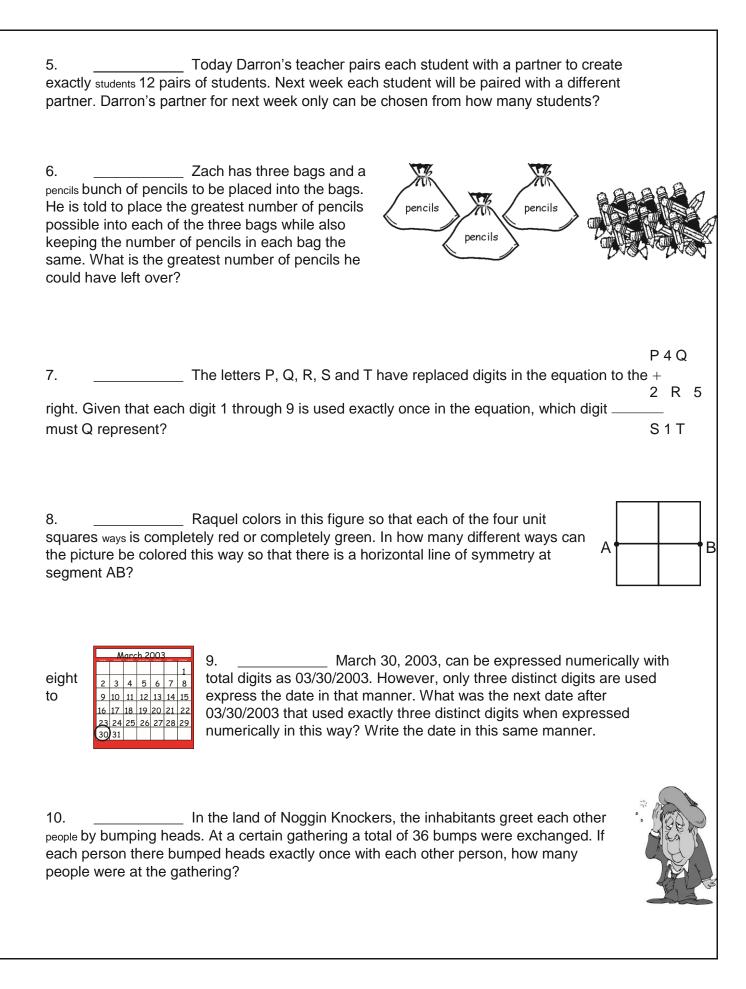


2. _____ The symbols \triangle \square and \square represent four different integers from 1 to 9. Using the equations below, what is the value of \square ?

3. _____ Some numbers of this tree are given, and only the top five rows of the tree are shown. If each number in a circle is the sum of the two numbers it is attached to in the row below it, what number will appear in circle A?



4. _____ Five friends are standing in a line. Cliff is standing directly behind Danny, and there are two people between Cliff and Mark. Mark is standing somewhere behind Eric, but somewhere in front of Tom. Which of the five friends is fourth in line?



11	If I have two more brothers than sisters and each of my brothers also has
	than sisters, how many more brothers than sisters does my oldest sister

Joe. The	s, 64 inches, 58 inches, 68 inc girls are the three shortest stu	ix students Joe, Mary, Sue, Steve, Lisa and Jo hes, 63 inches and 69 inches. Sue is 4 inches udents. Steve is 1 inch shorter than John. Mar ohn's height and Lisa's height?	short	er thar	
****Chall	enging****				
of coins i number o	han the others. A balance scalis heavier or that the two group	ntical-looking coins, one of which is slightly use le can be used to show which one of two grou os weigh the same. What is the minimum at is guaranteed to determine which of the coi	ps		
14	•	uzzle to the right (that works like a one digit.	1	2	
	the answer to 1-Across?	on-snaded unit squares contains one digit.	3		4
	Across 1. A prime number	<u>Down</u> 1. A multiple of 9	<u>5</u>		
	3. A perfect square5. A perfect fourth power	A perfect cube A perfect square			