"There are 10 kinds of people in the world, those who know binary, and those who don't."

- 1. The following numbers are given in binary, figure out what they are:
 - (a) 11 =
 - (b) 10101 =
 - (c) $10 \cdots 0 =$ (where there are *n* 0's)
 - (d) $111 \cdots 1 =$ (where there are *n* 1's)
- 2. Write in binary:
 - (a) 10 =
 - (b) 20 =
 - (c) $2^4 =$
 - (d) $2^{15} 1 =$
 - (e) $2^5 2^2 =$
- 3. Calculate, in binary
 - (a) 1011 + 1001 =
 - (b) 1011 1001 =
 - (c) $1011 \times 1001 =$
 - (d) $1111 \div 101 =$
- 4. Complete the multipliation

			1	0	В
	×		А	1	1
			1	0	С
		1	0	1	
	D	\mathbf{E}	\mathbf{F}		
1	0	G	Η	1	1

Math Competition We are considering participating in the 2007 Math is Cool competition this spring for the 4th and 5th graders. Participation is not required, however we thing that this would be a very fun and educational experience. The actual dates of competition are Saturday, March 23 for 4th grade and Friday, April 20 for 5th grade. Registration is due February 23rd. Both are held at Bear Creek Elementary in Woodinville. The fees are \$10 per grade level and \$40 per team. If your child would like to participate, please let us know at robertwb@math.washington.edu and mgoff@math.washington.edu. We are also be looking for volenteers to be drivers and chaperones.