

**2004 All-Day Sprint: Title Scramble**  
**School Code: \_\_\_\_\_ School Name: \_\_\_\_\_**

This Sprint should be completed by students without any adult assistance. Only one answer form should be turned in by each school. This is just a worksheet on which you can scribble while you work out the answers. Be sure to turn in the YELLOW answer sheet before 2:00 in the box in room 208 Maybank.

I was going to try to impress all of the Math Meet participants with a list of just a few of the recent research publications from College of Charleston math professors. However, because of a *bug* in the software, I'm afraid that *one word in each title* has become *scrambled*! Please find the scrambled word in each title, cross it out, and write the correct *unscrambled* word above it. (You will note that some of the words in the titles are unknown to you. Fortunately, I think all of the scrambled words are words you would recognize as mathematical.)

**functions**

1. **Convolutions for special classes of harmonic univalent ~~functions~~**  
 OP Ahuja, JM Jahangiri, and H Silverman  
*Appl. Math. Lett.* 16 (2003), no. 6, 905–909.

**sequences**

2. **Stop rule and supremum comparisons for i.i.d. ~~sequences~~ of exponential and uniform random variables**  
 I Castillo and ML Jones  
*Stochastic Anal. Appl.* 19 (2001), no. 2, 197–206.

**chaos**

3. **Homoclinic ~~chaos~~ increases the likelihood of rogue wave formation**  
 A Calini and CM Schober  
*Phys. Lett. A* 298 (2002), no. 5-6, 335–349.

**rational**

4. **Finite canonical commutation relations and the ~~rational~~ nested Bethe ansatz**  
 A Kasman  
*Regul. Chaotic Dyn.* 6 (2001), no. 2, 211–214.

**quadratic**

5. **Eisenstein's lemma and ~~quadratic~~ reciprocity for Jacobi symbols**  
 B Tangedal  
*Math. Mag.* 73 (2000), no. 2, 130–134.

**additive**

6. **Applications of nonstandard analysis in ~~additive~~ number theory**  
 R Jin  
*Bull. Symbolic Logic* 6 (2000), no. 3, 331–341.

**inverse**

7. **An ~~inverse~~ problem from sub-Riemannian geometry**  
 TA Ivey  
*Pacific J. Math.* 208 (2003), no. 1, 111–124

**variables**

8. **Favard's interpolation problem in one or more ~~variables~~**  
 T Kunkle  
*Constr. Approx.* 18 (2002), no. 4, 467–478

**squares**

9. **Linear codes through Latin ~~squares~~ modulo  $n$**   
 D Sarvate and L Strehl  
*Bull. Inst. Combin. Appl.* 37 (2003), 73–81