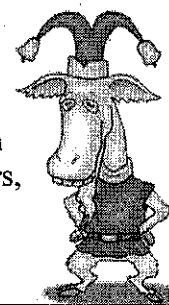


**Unit 5: Quadratics**  
**Quiz Day Worksheet**

Name: \_\_\_\_\_  
 Date: \_\_\_\_\_ Hour: \_\_\_\_\_

**Part 1: Complete the Foolish Factoring Worksheet below.**



When factoring algebraic trinomials, you need to be able to see patterns relating to the sum and products of numbers. In this exercise, when given the product and sum of two numbers, find the numbers.

**Example:**

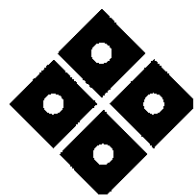
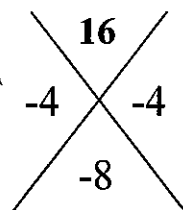
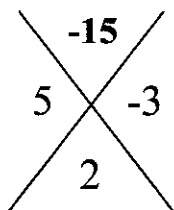
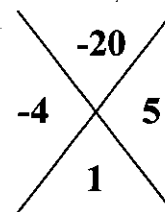
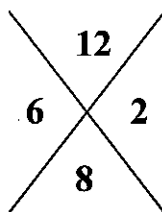
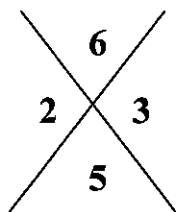
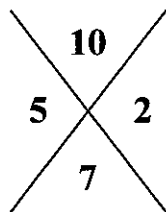
<b>Find:</b>	<b>Product is</b>	<b>Sum is</b>	<b>Answer ...</b>
2 numbers whose	20	9	
<i>Thinking...</i>	<i>Factors could be 10 &amp; 2; 4 &amp; 5; 20 &amp; 1</i>	<i>Only 4 &amp; 5 give the correct sum</i>	<i>The answer will be the numbers 4, 5</i>

**Try These:**

	<b>Find:</b>	<b>Product is</b>	<b>Sum is</b>	<b>Answer ...</b>
1.	2 numbers whose	15	8	
2.	2 numbers whose	8	6	
3.	2 numbers whose	12	7	
4.	2 numbers whose	24	11	
5.	2 numbers whose	40	-13	
6.	2 numbers whose	28	-11	
7.	2 numbers whose	15	-16	
8.	2 numbers whose	-14	5	
9.	2 numbers whose	-5	-4	
10.	2 numbers whose	-10	-3	
11.	2 numbers whose	-56	1	
12.	2 numbers whose	-20	1	

Part 2: Complete the *Diamonds Are A Math Teacher's Best Friend* worksheet below.

Use the diamonds below to discover a pattern.



What pattern do you notice?

Use this pattern to complete each of the following diamonds.

