SM 2	N	lame:	Period:
		5.1 Pre	paring for Factoring
Tips:			
•	If two	numbers multiply to a positiv	e, they are either both positive or both negative.
	0	If they multiply to a positive both numbers are positive.	and add to a positive:
	0	If they multiply to a positive both numbers are negative.	and add to a negative:
•	If two	numbers multiply to a negativ	ve, one is positive and one is negative.
	0	If they multiply to a negative the bigger number is positive	e and add to a positive: e and the smaller number is negative.
	0	If they multiply to a negative the bigger number is negative	e and add to a negative: ve and the smaller number is positive.
=		1-4, list <u>all</u> pairs of numbers w pair with the given sum (addit	vith the given product (multiplication answer), the ion answer).
	ultiply to t of <u>all</u> p	o: 6 Add to: 5 pairs that multiply to 6:	2. Multiply to: 24 Add to: -14 List of <u>all</u> pairs that multiply to 24:

4. Multiply to: -36 Add to: -9

List of <u>all</u> pairs that multiply to -36:

Which ones add to -9?

3. Multiply to: -6 Add to: 5

List of <u>all</u> pairs that multiply to -6:

Which ones add to 5? \_\_\_\_\_

## Find two numbers with the given product (multiplication answer) and sum (addition answer).

Product (× to)	Sum (+ to)	Numbers
10	7	
-24	2	
8	9	
-25	0	
8	6	
-12	1	
-11	-10	
72	18	
12	-13	
-2	-1	
-80	2	
-40	-6	
-44	7	
63	16	
90	-19	

Product (× to)	Sum (+ to)	Numbers
4	5	
-60	-7	
-66	5	
15	-8	
-8	2	
-16	-6	
33	-14	
-15	2	
30	-13	
5	-6	
-6	-1	
20	9	
121	-22	
20	-12	
-9	-8	