ALL WORK CAN BE DONE ON THIS SHEET

Your factor trees will probably look differently than mine, but our answers should be the same.

WS 12A.1 – Prime Factorization our answers should be the same.

Find the prime factorization of each number.

Find the prime factorization of each number.		
1. 70	2. 135	3. 315
10 3	/ \	
10 (7)	27 (5)	(5) 63
	A7 0	//
(5) (2)		(7) 9
	9 3	
- 2.6.7	3	. 33
= 2 3 1	= 33.5	= 3°.5.7
d.		
4. 165	5. 273	6. 1925
∠ \		/ \
(5) 35	91 (3)	25 77
		/\ /\
\bigcirc	(3) 南	$\mathcal{O}(\mathcal{O}(\mathcal{O}))$
		3 9 GW
52 7	27.2	53 5
= 5 . 7	= 3.7.13	= 5,7.11
7. 1716	8. 338	9. 455
		1.1
4 429	(2) 169	(5) 91
41 /1	_/_	
(a) (a) 143	(13)(13)	
/_		(13) (4)
$\mathcal{A}_{\mathcal{A}}}}}}}}}}$	2 122	
= 2.3.11.13	= 2.13	= 5.7.13
	~	
10. 149	11. 33	12. 1875
prime		25 75
	(3) (11)	25 45
only need to charle		50 50
only near to enear		5 5 25 3
only need to check prime numbers up to V149 ≈ 12.2	= 3.11	6
to √149 ≈ 122	2.11	55
(2252	2	= 3.5 ⁴
(2,3,5,7,11)		20