Name _	
Date	

Prime Factorization, LCM, and GCF

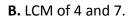
Mixed Review

Prime Factorization - Use division to break a composite number into prime factors.

Least Common Multiple - The smallest common number in a set of multiples.

Greatest Common Factor - The highest number that divides exactly into two or more numbers.

A. Prime factors of 42.



C. GCF of 12 and 18.



2 x 3 x 7

• <u>Directions</u>: Complete the problems and answer the riddle. Show work on all problems.

What kind of coat can only be put on when wet?

Answer Key				
	$= 2^2 \times 3^2$			
	= 3			
	= 2			
	= 10			
	= 2 x 5 x 7			
	= 84			
	= 18			
	= 15			
	= 60			
	$= 2^4 \times 5$			
	$= 2^2 \times 7$			

F. LCM of 7, 12	T. Prime Factors of 28	A. GCF of 16, 18	C. Prime Factors of 36
T. GCF of 30, 40	G. LCM of 8, 20	N. Prime Factors of 40	B. GCF of 18, 30
E. LCM of 3, 8, 6	O. GCF of 9, 24	l. LCM of 10, 12	N. Prime Factors of 80
L. LCM of 8, 30	O. Prime Factors of 70	A. GCF of 15, 45	P. LCM of 3, 6, 9

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Answer Key				
_ C = $2^2 \times 3^2$				
_ O = 3				
_ A = 2				
_ T = 10				
_O = 2 x 5 x 7				
_ F = 84				
_ P = 18				
_ A = 15				
_ I = 60				
$_{N}_{_{}} = 2^4 \times 5$				
$_{\mathbf{T}}$ = $2^2 \times 7$				

F.	T.	A.	C.
LCM of 7, 12	Prime Factors of 28	GCF of 16, 18	Prime Factors of 36
84	2 ² × 7	2	2 ² x 3 ²
T. GCF of 30, 40	G. LCM of 8, 20	N. Prime Factors of 40	B. GCF of 18, 30
10	40	2 ³ × 5	6
_		_	
E. LCM of 3, 8, 6	O. GCF of 9, 24	I. LCM of 10, 12	N. Prime Factors of 80
24	3	60	2 ⁴ x 5
L.	Ο.	A.	Р.
LCM of 8, 30	Prime Factors of 70	GCF of 15, 45	LCM of 3, 6, 9
120	2 x 5 x 7	15	18