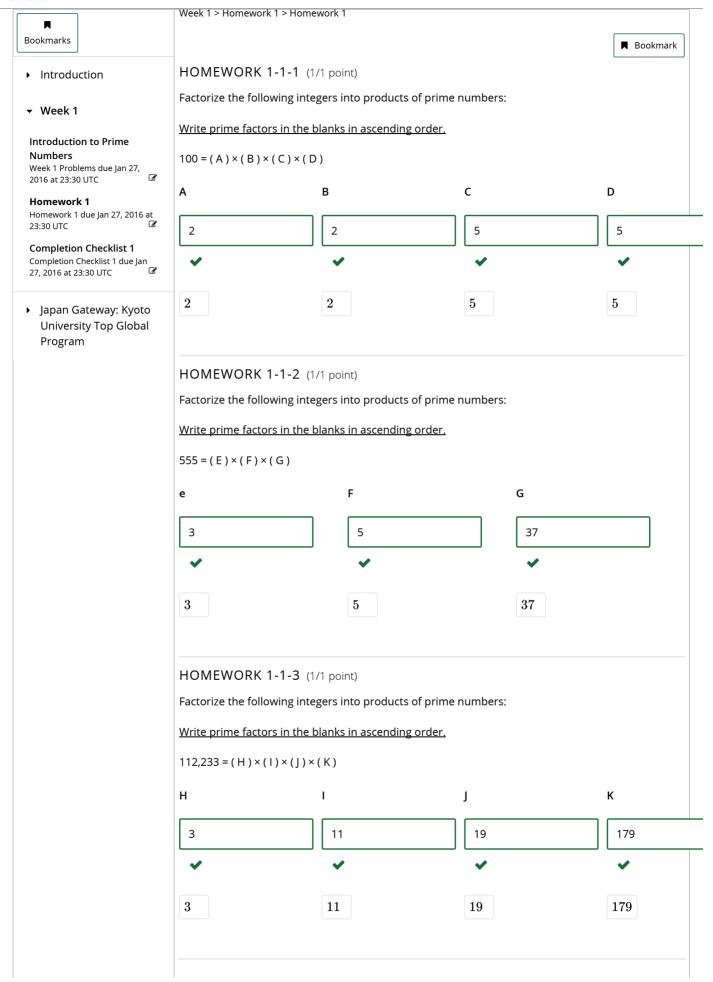


KyotoUx: 004x Fun with Prime Numbers: The Mysterious World of Mathematics



HOMEWORK 1-2 (2/2 points)			
How many twin prime pairs are there between 1,000 and 1,500?			
15			
15	J		
15			
HOMEWORK 1-3 (4/4 points)			
Confirm the Goldbach conjecture for 100. It is known that 100 can be written as a sum of two prime numbers in six different ways. Namely, we have			
$100 = A_1 + B_1 = A_2 + B_2 = A_3 + B_3 = A_4 + B_4 = A_5 + B_5 = A_6 + B_6$			
where A_i and B_i are prime numbers satisfying $A_1 < A_2 < A_3 < A_4 < A_5 < A_6$ and $A_i < B_i$. Calculate A_i and B_i .			
A ₁	B ₁	A_2	B ₂
3	97	11	89
3] [97		09
•	•	•	•
3	97	11	89
A ₃	B ₃	A ₄	B ₄
17	83	29	71
•	✓	*	~
17	83	29	71
A ₅	B ₅	A ₆	B ₆
41	59	47	53
✓	✓ ✓	✓	✓
41	59	47	53

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