## Mathematical Thinking Week 5 Activity Questions

## October 18, 2023

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1	Proof of the Inclusion–Exclusion Principle	

- 2 Pigeonhole Principle
- 3 Pigeonhole Principle Applications
- 4 Pigeonhole Principle Applications (2)
- 5 Sieve of Eratosthenes
- 6 More on the Infinitude of Primes
- 7 Gaps Between Primes