

## The JETS Challenge

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### Challenge 88 – The Prime Number Challenge

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#### Problem:

Arrange the ten digits (from zero to nine) in alphabetical order. Divide the ten digit number that results by the factors  $(2^{10})(3^3)$  and 5.

What is the prime number that results?

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#### Solution:

eight  
five  
four  
nine  
one  
seven  
six  
three  
two  
zero

or 8,549,176,320

$\div (2^{10})(3^3)(5)$

= 61,843