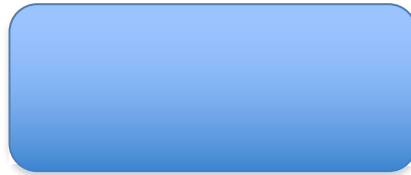


## Amazing Numbers

1. Professor Natalie Attired likes to display her interest in math with a special vanity license plate. Her plate is made up of the six digits 1, 2, 3, 4, 5, & 6 (none repeated) with the following properties: The first two digits on the left form a number divisible by 2, the first three digits make a number divisible by three, the first four are divisible by 4, etc. What is her license number?



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2. What strategies helped you find the number?

3. When Homer D. Brave - one of Natalie's colleagues -- saw her license plate, he was jealous. Soon, however, he found a different combination of 1, 2, 3, 4, 5, & 6 that satisfies the same rules. What is his number?

\_\_\_\_\_

4. Can you find another combination that works? Why or why not?

