



Problem of the Week

Problem C

Five Magnets

Harlow has five magnets, each with a different number from 1 to 5. They arranged these magnets to create a five digit number $ABCDE$ such that:

- the three-digit number ABC is divisible by 4,
- the three-digit number BCD is divisible by 5, and
- the three-digit number CDE is divisible by 3.

Determine the five-digit number that Harlow created.

1 2 3 4 5