



Problem of the Week Grade 7 and 8

The Search is On

The digits 1, 2, 3, 4, and 5 are each used exactly once to create a five digit number $abcde$ which satisfies the following two conditions:

- (i) the two digit number ab is divisible by 4; and
- (ii) the two digit number cd is divisible by 3.

Find all five digit numbers, formed using each of the digits 1 to 5 exactly once, that satisfy both conditions.

