

There are three dice, each of them with faces labelled from 1 to 6. When the dice are rolled they can be combined in six different ways to make a three-digit number.

For example, if I roll a 2 and a 4 and a 5, I can combine them to make $245,254,425,452,524$ or 542.

Now round each of these numbers to the nearest 100: 245 rounds to 200,254 rounds to 300,425 rounds to 400,452 rounds to 500,524 rounds to 500 and 542 rounds to 500 .

Repeat for other rolls of the dice.
Can each of the six numbers round to the same multiple of 100 ?
Can each of the six numbers round to a different multiple of 100 ?

