

Discuss with your partner(s)

Chicken McNuggets originally came in boxes of 6, 9, or 20 McNuggets.

A McNugget number is a positive integer that can be obtained by adding together orders of Chicken McNuggets, prior to consuming any.

1. Prove that the following are McNugget numbers:

15, 35, 41, 42, 44, 45, 46, 47, 48, 49

2. Prove that 43 is not a McNugget number
3. Prove that every integer $n \geq 44$ is a McNugget number