

Fact: A number is divisible by 2 if it is an even number. A number is divisible by 3 if the total of the digits is divisible by 3. A number is divisible by 6 if it is divisible by both 2 and 3.

Example: Is 618 divisible by 6? Yes—it is divisible by 2, because it is an even number, and it is divisible by 3, because $6 + 1 + 8 = 15$, which is divisible by 3, therefore it is divisible by 6.

Practice:

Are these numbers divisible by 6?

- 1) 4229
- 2) 544
- 3) 1,260
- 4) 87,000
- 5) 12,984

Answers:
1) no
2) no
3) yes
4) yes
5) yes