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Divisibility Rules

How do we know when we can divide one number into another exactly?

Divisibility Rules (2)

A number can be divided by 2 if

□ the last digit is even



Divisibility Rules (3)



a number is divisibleby 3 if

the sum of the digits is3, 6 or 9



a number is divisible by 4 if

the number made by the last two digits can be divided by 4



Divisibility Rules (5)

A number is divisible by 5 if

the last digit is a 5 or a 0



Divisibility Rules (6)

A number can be divided by 6 if

the last digit is even and the sum of all the digits is 3, 6 or 9



Divisibility Rules (8)

- A number is divisible by 8 if
- the number made by the last three digits will be divisible by 8



Divisibility Rules (9)

- A number is divisible by 9 if
 - the sum of all the digits will add to 9



Divisibility Rules (10)

A number can be divided by 10 if

the last digit is a 0





A number can be divided by 7 if

you find a rule?



 \square 2, the last digit will be an even number

 \Box 3, all the digits will add to 3,6 or 9

4, the number made by the last two digits can be divided by 4

5, the last digit will be a 5 or 0

6, the last digit will be even and the digits will add to 3, 6 or 9

8, the number made by the last three digits will be divisible by 8

9, the sum of the digits will be 9

10, the last digit will be a 0

There is no easy test for 7, although some methods have been invented, however it is easier to use a pencil and paper method.

Apply these rules to these numbers: 74,673,042 444,555,448 61,616,168 732,510 66,666,666 179,131,590