

RULES OF DIVISIBILITY

poster and student activity

Rules of Divisibility

This resource is designed to support the learning of division.

These 'tricks', also known as 'rules of divisibility' allow students to:

- check answers to questions
- work mathematically with efficiency
- check prior knowledge

Please note - the learning of division, inclusive of conceptual understanding, should be taught first. The rules of divisibility are a tool for students to use along side the division of bigger numbers.

What's included?

- rainbow anchor chart/poster for the classroom
- black and white poster/anchor chart for student books: cursive font
- black and white poster/anchor chart for student books: printed font
- single colour poster/anchor chart (green)
- number and rule match activity (cut and play!)

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rules of divisibility

A number is divisible by:

2	if the last digit is 0, 2, 4, 6 or 8.
3	if the sum of the digits is divisible by 3.
4	if the last two digits is a number divisible by 4.
5	if the last digit is 5 or 0.
6	if the number is divisible by 2 and 3.
7	if the last digit is removed and doubled. Minus this from the rest of the number. The result should be divisible by 7.
8	if the last three digits is a number divisible by 8.
9	if the sum of all the digits is divisible by 9.
10	if the number ends in 0.
11	if when the last digit is removed and then subtracted from the number, and the new number is divisible by 11.
12	if the number is divisible by 3 and 4.

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8	if the last three digits is a number divisible by 8.
9	if the sum of all the digits is divisible by 9.
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These rules are out of order. Cut the rules into strips and match them to the correct number!

if the last three digits is a number divisible by 8.

if the number is divisible by 3 and 4.

if the last digit is removed and doubled. Minus this from the rest of the number. The result should be divisible by 7.

if the sum of all the digits is divisible by 9.

if when the last digit is removed and then subtracted from the number, and the new number is divisible by 11.

if the last two digits is a number divisible by 4.

if the last digit is 0, 2, 4, 6 or 8.

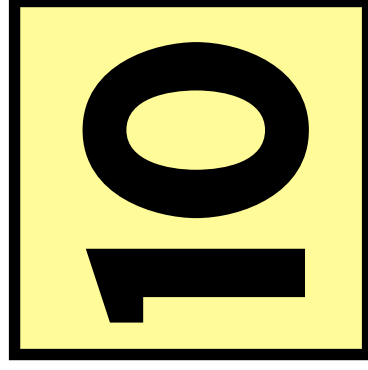
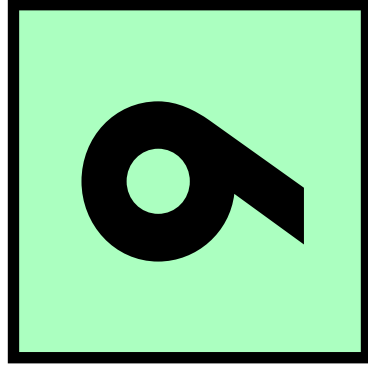
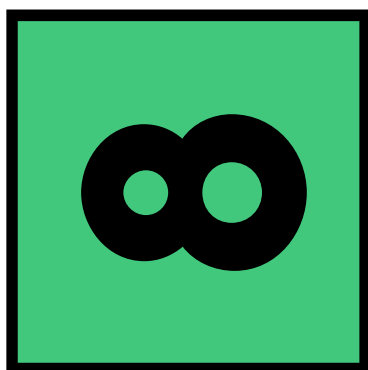
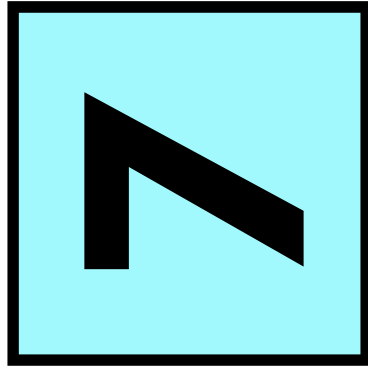
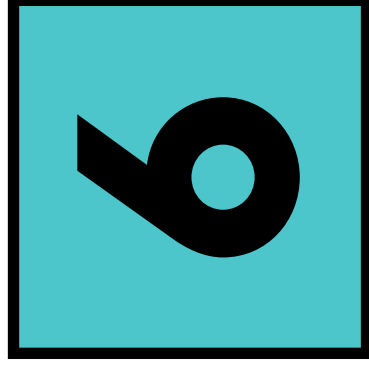
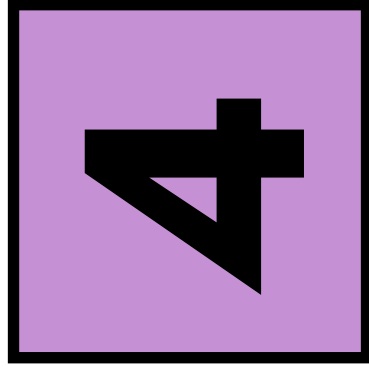
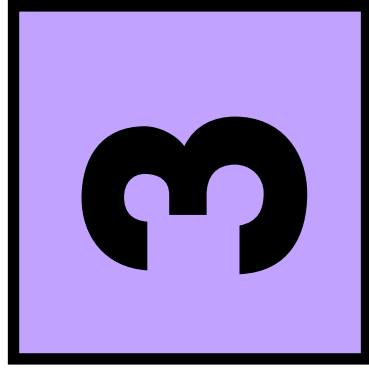
if the last digit is 5 or 0.

if the sum of the digits is divisible by 3.

if the number is divisible by 2 and 3.

if the number ends in 0.

These numbers have lost their rule of divisibility. Cut out the numbers and match them to the rule.



These numbers have lost their rule of divisibility. Cut out the numbers and match them to the rule.

2

3

4

5

6

7

8

9

10

11

12

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