Split Strategy

Adding Whole Numbers

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Learning Objective

Students will be able to use split strategy ito breaking down numbers into their place values to make addition.

Why do we use split strategy?

By using the split strategy, students can handle large numbers more easily by breaking them down into manageable parts. This strategy helps you understand the place value system and how to perform addition in a structured and organized manner.

Let's take the example of adding two 4-digit numbers: **3256 + 4879**

Start by splitting the numbers into their place values:

3,256 can be split into   3000 + 200 + 50 + 6
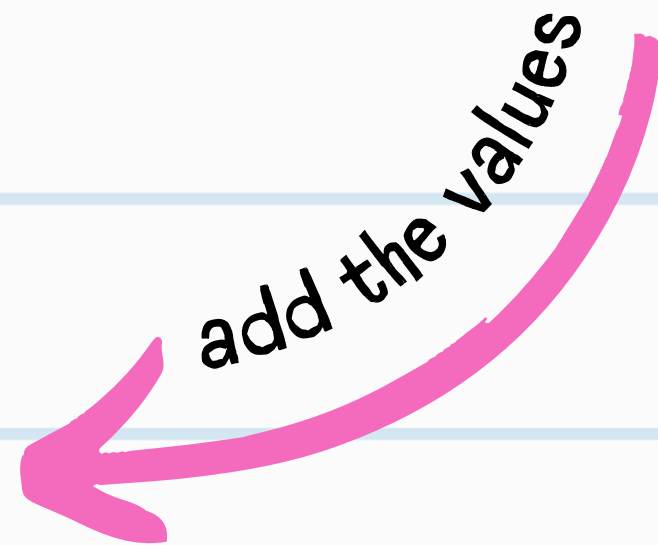
4,879 can be split into   4000 + 800 + 70 + 9

3000 + 4000 = 7000

add the values

200 + 800 = 1000

50 + 70 = 120

6 + 9 = 15

Finally, add the results to get the final sum: 7000 + 1000 + 120 + 15 = 8,135

Your turn!

Solve the following additions using the split

strategy

a) 3241 + 1879
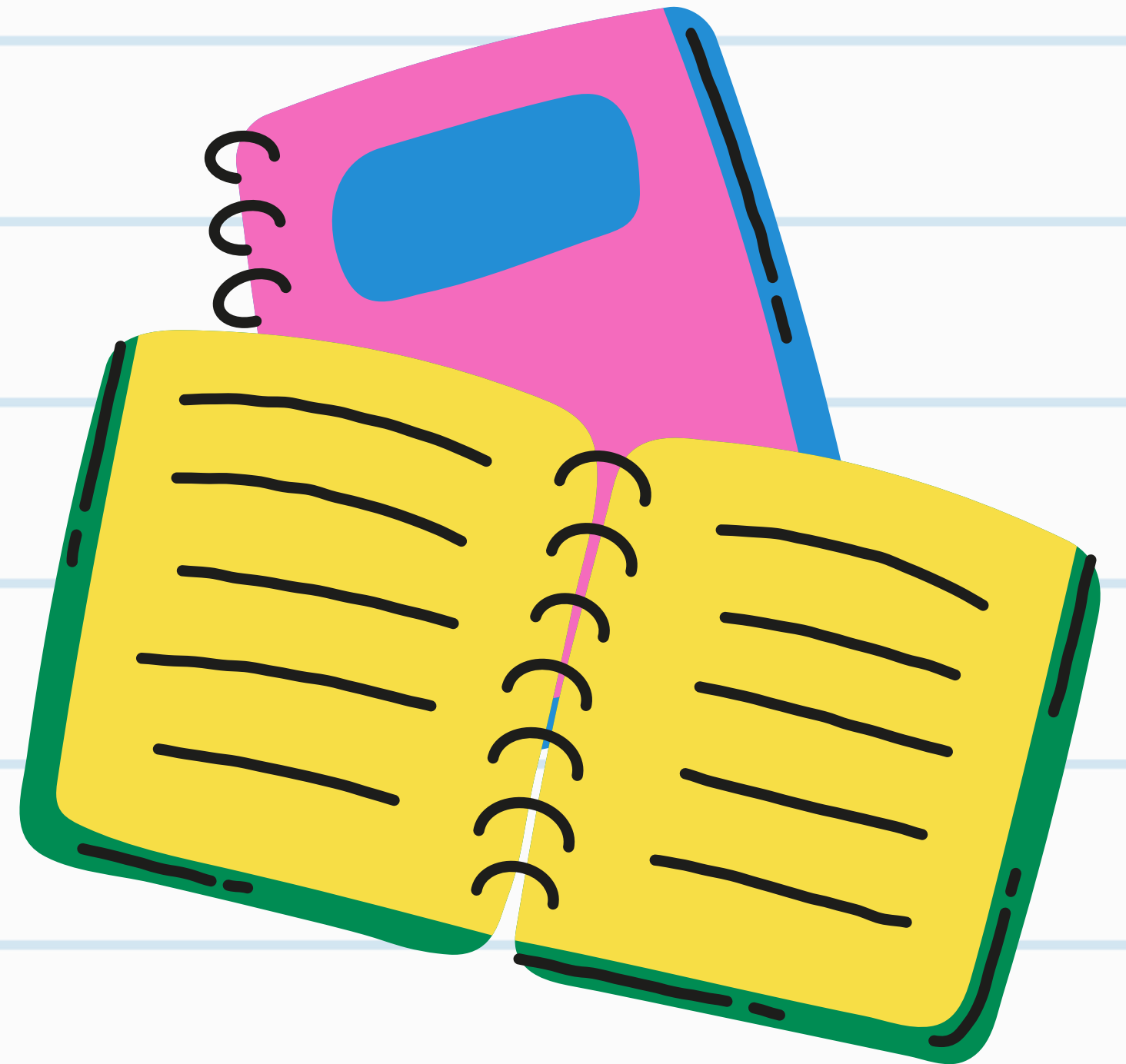
b) 5896 + 3265

c) 4213 + 3678

d) 7459 + 5234

Solve the following word problems using the split strategy!

Emma has 3,567 marbles, and her friend John gives her 2,894 more marbles. How many marbles does Emma have in total?

Answer:

A school has 4,873 students, and another school has 2,156 students. How many students are there in total?

Answer:

Challenge Problem:

Solve the addition using the split strategy: 8712 + 9236 + 1574

Critical Thinking:

Explain in your own words how the split strategy makes adding large numbers easier. Give an example to support your explanation.