

National Curriculum links:

- Recognize the place value of each digit in a 4-digit number (thousands, hundreds, tens and ones)
- Identify, represent and estimate numbers using different representations

Key learning

- Complete the number sentences.



$$2,323 = 2,000 + \underline{300} + \underline{20} + \underline{3}$$



$$2,323 = \underline{1000} + \underline{1300} + \underline{20} + \underline{3}$$

How else can 2,323 be partitioned?

E.g. 1012 + 1001 + 20 + 12 (4 numbers that add up to 2.323)

- Use the place value chart to complete the number sentences.

Thousands	Hundreds	Tens	Ones
1,000 1,000	100 100 100	10 10 10	1 1 1 1 1 1 1 1 1

$$2,339 = 2,000 + \underline{300} + 30 + 9$$

$$2,339 = 2,000 + 300 + \underline{20} + 19$$

$$2,339 = 1,000 + \underline{1300} + 30 + 9$$

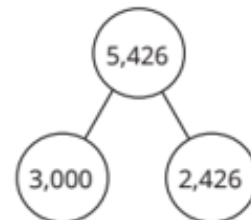
- Complete the part-whole models.



What is the same and what is different?

The whole and one of the parts are the same. 2 of the parts are different.

- Here is one way of partitioning 5,426 into two parts.



3 sets of two numbers that add up to 5,426

e.g. 2,000 + 3426

4,000 + 1,426

2,900 + 2,526

Find three other ways of partitioning 5,426 into two parts.

Compare answers with a partner.

- Complete the number sentences.

▶ $8,432 = 7,000 + \underline{1,401} + 31$

▶ $6,729 = 3,000 + \underline{3700} + 19 + \underline{10}$ **Possible answer**

▶ $9,310 = \underline{9000} + 110 + \underline{200}$ **Possible answer**

Is there more than one way of completing each sentence?

Yes! E.g. 9310 = 5000+ 4200 +110

Reasoning 1

Anita has partitioned a 4-digit number.



5,000, 700, 60 and 8
combine to make 5,768

Do you agree?

Yes, I agree with Anita. If you add up or find the sum of all those parts it is 5,768.

Prove it using a Gattegno chart.

Gattegno chart:

1000	2000	3000	4000	5000	6000	7000	8000	9000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9

Reasoning 2

Is Jerry's calculation correct?

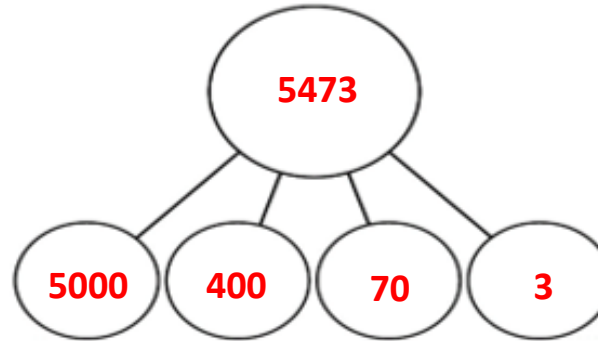


$70 + 400 + 3 + 5,000 = 7,435$

No, Jerry is not correct but I see his mistake!

He has just taken the first digit for each number and joined them to form a 4 digit number. He should have added $5000+400+70+3$ to get 5473.

Prove it using a whole part model.



Practice:

- Your 2,5,10,11, 3,4,8 times tables

Challenge yourself:

- Practice your 6- and 7-times tables