The sum of four whole numbers is 23.

The difference between the smallest and the largest number is 6.

All four numbers are different.

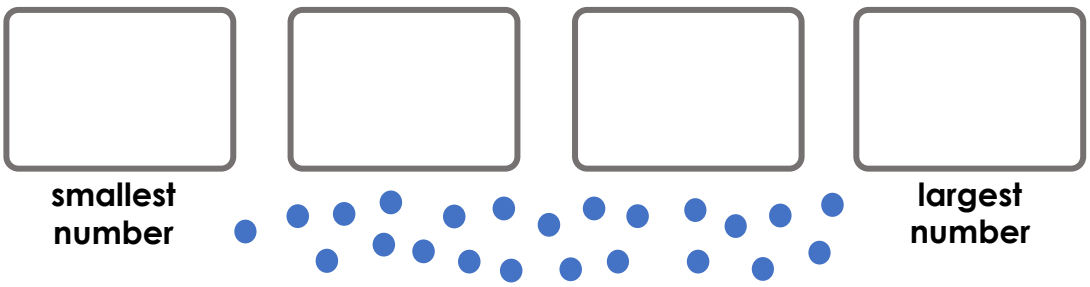
What could the four numbers be?

Challenge: *Find* ***all the possible answers*** *to this question.*

SUPPORT

Tip: Share 23 counters between four whiteboards.

Each whiteboard represents one of the numbers.



Remember: *the difference between the smallest number and the largest number is 6.*

EXPLAIN

Explain how you know that this statement is correct:

'The largest number must be more than 7'

Answers are on the next page!

Answers:

Main Task: Possible answers: 2, 6, 7, 8 3, 5, 6, 9 3, 4, 7, 9

Explain: If the largest number was 7 then the smallest number would have to be 1 for there to be a difference of 6 between the largest and smallest numbers. The other two numbers would have to add up to 15 (7 + 1 + 15 = 23). It is not possible for two numbers to add up to 15 without one of the numbers being larger than 7.