

http://topdrawer.aamt.edu.au/Mental-computation/Big-ideas/Generalising-patterns-and-relationships/Properties-of-operations-Commutative-and-associative

## **Transcript of video Masked Collections**

Vince: How many counters do you see, Rose?

(Vince lifting a sheet of paper to show a set of red counters)

Rose: Six.

Vince: Good. How did you know they were six?

Rose: There were three on each side.

Vince: Okay, good. How many counters do you see?

(Vince lifting another sheet of paper to show a set of green counters)

Rose: Nineteen.

Vince: How do you know it's nineteen?

Rose: Because there was a full card of ten and then there was one missing on this, so

there was twenty spaces and one missing.

(Rose explaining the reason behind her answer by pointing to the counters)

Vince: OK. So I would like you to do this. I would like you to work out six plus

nineteen, and tell me how you worked it out.

(Vince writing 6 + 19 on sheet of paper with a marker)

Rose: I would take one from the six to make twenty here, so I'd have twenty plus five

is twenty-five.

(Rose giving the solution to the question pointing towards figures written on the sheet of paper)

Vince: Okay. So you just show me what you did.

(Vince taking off the sheets of paper covering both sets of counters)

Rose: So I take one from here so now I've got twenty and then I've got five there so

it's twenty-five altogether.

(Rose taking one red counter and placing it to the other side with green counters)



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Vince: So you're really doing this, aren't you?.

(*Vince writing* 19 + 6 *on the sheet of paper*)

Rose: Yes.

Vince: Starting with the nineteen.

Rose: The bigger number.

Vince: And what do you notice?

Rose: They're both equal to twenty-five.

Vince: Okay. And anything else that you notice? Do you notice something?

(Vince does a turning motion with his hand)

Rose: Oh, that they've been turned around the other way.

Vince: Well done.