



5 8 9 10	E	DEG	
L1(11)=			•

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2

Navigate across to List 2 and enter the sum formula:

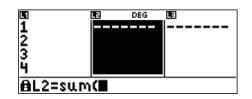


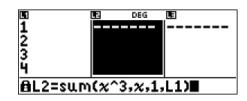
The syntax for the sum command in this environment is as follows: sum(*expression*, *variable*, *start*, *end*)



Then press: to execute the calculations.

List 3 needs to have a formula for the squared sum of whole numbers. The formula should entered as shown opposite:





•	36		
<u>й</u> BL3=sum	100	1   1	12

## **Question: 3.**

Complete the following table of values:

Ν	1	2	3	4	5	6	7	8	9	10
N <sup>3</sup>	1	8	27							
$\sum_{x=1}^{n} x^3$	1	9	36							
$\sum_{x=1}^{n} x$	1	3	6	10						
$\left(\sum_{x=1}^n x\right)^2$	1	9								

## **Question: 4.**

Write down the fomula for 
$$\sum_{x=1}^{n} x$$
 and hence the formula for  $\sum_{x=1}^{n} x^3$ .

## **Question: 5.**

Use induction to prove the formula for the sum of the first  $n^3$  whole numbers.

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