$$
\begin{aligned}
& \text { Find the sum of the numbers } \\
& \text { I to } 100 .
\end{aligned}
$$

Is this easy to do? Not for me! I had to use my calculator.


Name: jo
Who is ask
Who is asking: Student
Level of the question: Secondary
Question: what is the sum of the first 100 whole numbers?? how am i supposed to work
this out efficiently? thanks
this out efficiently? thanks

Hi Jo,
The question you asked relates back to a famous mathematician, Gauss. In elementary
school in the late 1700 's, Gauss was asked to find the sum of the numbers from 1 to
100 . The question was assigned as "busy work" by the teacher, but Gauss found the
answer rather quickly by discovering a pattern. His observation was as follows:
$1+2+3+4+\ldots+98+99+100$
Gauss noticed that if he was to split the numbers into two groups (1 to 50 and 51 to 100 ), he could add them together vertically to get a sum of 101.
$1+2+3+4+5+\ldots+48+49+50$
$100+99+98+97+96+\ldots+53+52+51$
$1+100=101$
$2+99=101$
$2+99=101$
$3+98=101$
http://mathcentral.uregina.ca/QQ/database/QQ.02.06/jo1.html
(1) Work check-booklets

- Ratios + Prop pl-3
- Sum of Angles p5
- Pyth Thesrem p13-17
- Tangent P25-29



