

Wipeout

- A) One of the numbers from **1 2 3 4 5 6** is wiped out. The mean of what is left is 3.6. Which number was wiped out?
- B) One of the numbers from **1** to **15** is wiped out. The mean of what is left is $7.\overline{714285}$. Which number was wiped out?
- C) One of the numbers from **1** to **N** , where **N** is an unknown number, is wiped out. The mean of what is left is $6.\overline{83}$. What is **N** , and which number was wiped out?
- D) One of the numbers from **1** to **N** is wiped out. The mean of what is left is 25.76. What is **N** , and which number was wiped out?

Extension:

One of the numbers from 1 to N , where N is an unknown even number, is wiped out. The mean of what is left is a whole number.

Which numbers could have been wiped out?

Explain.

Go to Room 233 of Jordan Hall to present your solutions to the Master Teacher. Be prepared to explain your answers. This problem is worth a total of 6 puzzle pieces, one piece for each part A through D and two pieces for the extension.