Problem of the Week
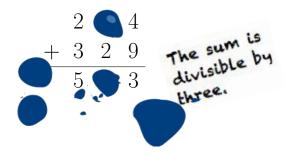## Problem C
What a Mess!

Jing was looking through an old math notebook and found the following mess on one of the pages:

$$
\begin{array}{r}
2\ \ \ 4 \\
+\ 3\ 2\ 9 \\
\hline
5\ \ \ 3
\end{array}
$$

The sum is divisible by three.

The middle digit of the top and bottom numbers were both smudged and unreadable. Beside the question there was a handwritten note which read: "The sum is divisible by three."

If the missing middle digit in the top number is A and the missing middle digit in the bottom number is B, determine all possible values for A and B.

STRANDS   NUMBER SENSE AND NUMERATION, PATTERNING AND ALGEBRA