## Missing Digits

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You need }\\mathrm{ a classmate
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## Activity

Marcus and Huia are trying to solve this missing digit problem. Both $\qquad$ $s$ are the same digit.


What digit is the $\square$ in this problem?

Here are some other missing digit problems. Within each problem, the $\square$ is the same digit. Solve them using what you know about numbers rather than using trial and improvement. Write down the steps you used to solve each problem.
a. $1000-\square 2 \square=273$
b. $4 \bigcirc 6+123=\bigcirc 79$
c. $67 \backslash+67 \square=1356$
d. $101-3 \triangle-\triangle 3=2$
e. $\Xi 6 \times \square=18 \square$
f. $\bigcirc 5 \bigcirc \times 11=\bigcirc 88 \bigcirc$
g. $684 \div \nabla=34 \nabla$

Marcus and Hula are discussing the patterns they noticed when they were solving missing digit problems.

In multiplication problems (except for multiplying by 5), I know that if 1 factor is odd, there will only be 1 digit that will work in the ones place. For example, with $3 \square \times 7=\square \square 4$, the $\square$ must be 2 because only $2 \times 7$ gives a 4 in the ones place.


What patterns did you notice when you were solving your missing digit problems?
Make up some missing digit problems for a classmate to solve.
Make sure you check them carefully before you give them to your classmate.

