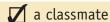# Double Rules

You need ☑ two calculators   ☑ a classmate

Activity

Rāwiri challenges Harmony to work out what rules he has entered into his two calculators.

He starts by hiding two calculators behind a big book.

He puts a multiplying rule into the first calculator …

and puts an adding or subtracting rule into the second calculator.

He asks Harmony to give him some "in" numbers.

I'll key in 2 x = *so that it doubles every number.*

On this calculator, I'll put in 3 + = *so that it adds 3 to every number.*

Try 6.

Put 6 *into the first calculator. Press* = . *That gives 12.*

Put 12 = *into the second calculator. That gives … 15.*

15 out.

6 goes in, and 15 comes out. Hmm …

Harmony tries to find out what rules Rāwiri has put into his calculators by asking several more "in" numbers.

1. If she gets Rāwiri to put in these numbers, what numbers will come out?

   a. 2   b. 10   c. 3   d. 4

2. Discuss with a classmate how Harmony could work out the rules that are in Rāwiri's calculators.