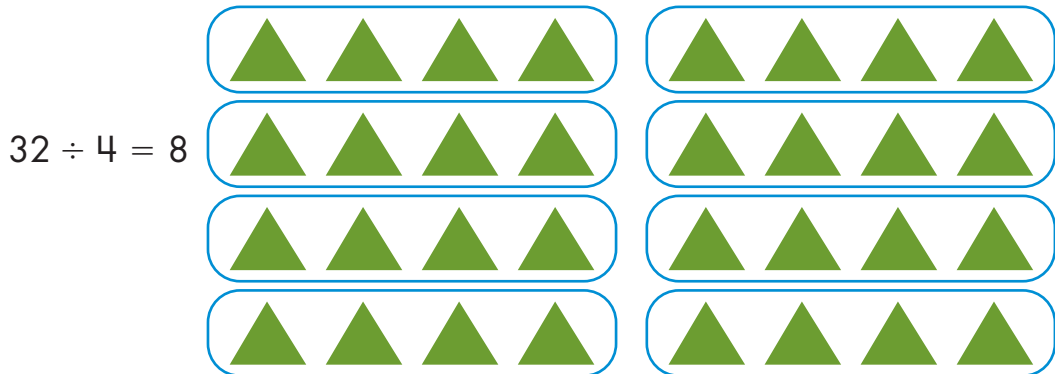# Factors

These three students have different ways to think about factors and different ways to show that 4 is a factor of 32.

Bill: *A factor is a whole number that divides another number evenly, with nothing left over.*
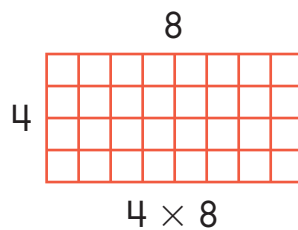
$32 \div 4 = 8$

So I know that 4 is a factor of 32.

Sabrina: *A factor is one of the dimensions of a rectangular array.*

There are 32 tiles here in a 4-by-8 array.

So I know that 4 is a factor of 32.

(And 8 is a factor of 32, too!)

8

4

4×8

Derek: *You can skip count by a factor of a number and land exactly on that number.*

I can skip count by 4s to get to 32.
4, 8, 12, 16, 20, 24, 28, 32!

So I know that 4 is a factor of 32.

What are some other factors of 32?