If you run 2 miles a day <u>every</u> <u>weekday</u> (5 days a week), how far will you run in 6 weeks?

That was easy. But what if you ran 2 miles a day <u>every</u> <u>day</u> of the week (all 7 days) for 6 weeks?

Well, in one week you would run  $(7 \times 2) = 14$  miles.

So, in 6 weeks you would run 6 times that, or 6 x 14 miles.

Okay, how do you multiply 6 x 14? (No, you don't add 14 six times.)

You use the distributive property.

First, expand 14 (write 14 in expanded form) as (10 + 4).

Now, multiply (10 + 4) by 6, using the distributive property:

You can use this method (expand and use the distributive property) to multiply any multi-digit number by any one-digit number.

2. Multiply 6 x 23 by expanding and using the distributive property.