


 what is happening when multiplying. Firstly, with no exchanges and then with exchanges:
$34 \times 2$


## $24 \times 3$


$320 \times 4$

| Hundreds | Tens | Ones |
| :---: | :---: | :---: |
| (1):0) | (1) |  |
| (1):0) | -1) |  |
| ():0) | (1) |  |
| (0): | (1) |  |

Show expanded method alongside pictorial representation. Firstly with no exchanges and then with:

Dora uses place value counters alongside the written multiplication to work out $34 \times 2$


Jo uses place value counters to work out $24 \times 3$


| Hundreds | Tens | Ones |
| :---: | :---: | :---: |
| (10):0) | (1) |  |
| (10): | -1) |  |
| (10):0) | $\bigcirc$ |  |
| (10): | (1) |  |



Children will then move on to using the formal method for short multiplication. They should have plentiful opportunities to see this method done alongside pictorial representations. Reinforce starting with the ones.




