

**Relying on a procedure, set up proportion and cross multiply.**

**Students who have developed meaning for an algorithm will know how and when to apply it.**

**How much water would drip from a leaky faucet in 4 minutes, given that it dripped at a steady rate of 6 ounces in 8 minutes?**

**One faucet was dripping 6 ounces in 20 minutes. A second was dripping 3 ounces in 10 minutes. Was the first one dripping slower, faster, or at the same pace as the second?**

## **Secondary 4 Science Calculations**

**If a small gear has 8 teeth and the big gear has 12 teeth and the large gear turns 96 times, how many times will the small gear turn?**

**A 5% (m/v) solution has a volume of 750mL, what is the mass of the solute?**

We should hold off on teaching students the cross-multiply algorithm until after they have had experience reasoning about ratios using their own strategies.