Activity One

Whina is experimenting with fruit drink mixtures. These two recipes use apple juice and blueberry juice:

Recipe 1
5 measures of apple juice and 3 measures of blueberry

Recipe 2
3 measures of apple and 2 measures of blueberry

Whina wonders which recipe has the strongest blueberry flavour. Here is her method for finding this out:

1. What does the “spare” measure of apple juice tell Whina about the flavours of the two mixtures?

2. Why did Whina take 2 copies of the first recipe and 3 of the second? What would happen if she used 3 copies of the 5:3 recipe to make a 15:9 mixture and then looked at how a 3:2 recipe fitted into that?
Activity Two

Here are some other fruit drink recipes. Each fruit symbol stands for 1 measure of that juice. Use Whina’s method or your own to answer the questions:

1. **Which recipe has the strongest mango flavour?**

2. **Which recipe has the strongest raspberry flavour?**

3. **Which recipe has the strongest passionfruit flavour?**