New Style Of Numeracy Starter

This is the new style of numeracy starter I will be using for the foreseeable future, this may be tweaked for the first few weeks. The whole point of this new style is to train the students how to revise Maths and to try and make them more independent outside of the classroom. If you have any questions please don't hesitate to ask.

This week I would like to recap the previous three weeks by using skills they have learnt when looking at area and fractions.

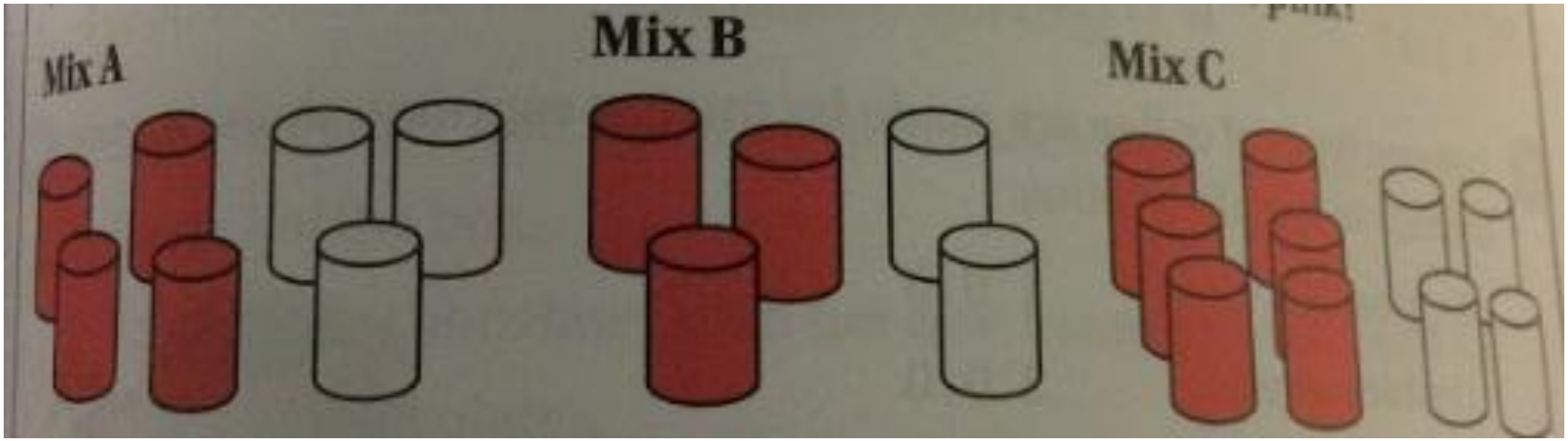
How Do I Revise Maths?

Tom and Tim share sweets in the ratio 2:3.

Tom has 30 fewer sweets than Tim.

How many sweets do they have altogether?

Red and white paint can be mixed to make pink paint. Which of these mixes below will give the lightest shade of pink?



Answers

Tom and Tim share sweets in the ratio 2:3.

Tom has 30 fewer sweets than Tim.

How many sweets do they have altogether?

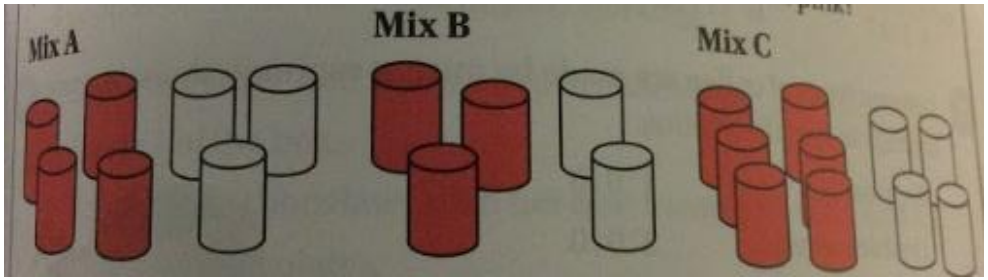
Tom	Tom	Tim	Tim	Tim

Tom has one part less that Tim, we also know Tom has 30 fewer sweets so one part of the ratio must be worth 30.

If one part is worth 30 what are 5 parts worth?

5 parts are worth 150 so they have 150 sweets altogether.

Red and white paint can be mixed to make pink paint. Which of these mixes below will give the lightest shade of pink?



Mix A has a ratio of 4:3
Mix B has a ratio of 3:2
Mix C has a ratio of 6:4
Each ratio is red to white.

We could manipulate each ratio to have the same amount of red tins in each scenario. Mix A has 4 tins, mix B has 3 tins and mix C has 6 tins, the LCM (lowest common multiple) of 4, 3 and 6 is 12 so we can change each mix to have 12 tins of red.

Mix A: 12:9 Mix B: 12:8 Mix C: 12:8

The more white paint it is mixed with the lighter the pink the colour will be therefore mix A is the answer.

Think This Is Something You Will Forget?

You should make a revision aid every time you revise, this way you have something you can keep referring back to. If you revise something one day then look over it for 10 minutes the next day and 5 minutes the day after that you WILL retain more of the information. Why put hours of work in then waste those hours by never re-visiting areas?

A good revision tool for this technique would be a fully worked example you have annotated so when you read it back it still makes sense.

Need Extra Practice?

The links below contain revision and practice for ratio:

http://www.bbc.co.uk/bitesize/ks3/maths/number/ratio/revision/1/
http://www.bbc.co.uk/education/guides/znnycdm/revision
http://www.mathsdoctor.co.uk/revision-help/gcse/ratio-proportion-rates/ratio-problems/
https://www.mathsisfun.com/numbers/ratio.html