

Making smoothies

PUPIL WORKSHEET

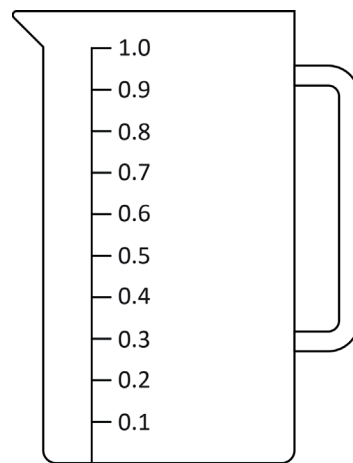
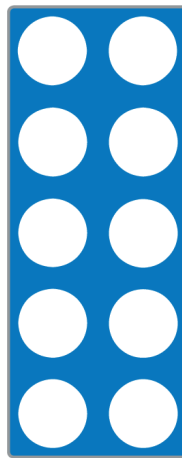


Mathematics is used a lot in recipes and cooking. In this activity we are going to be using decimal parts of a litre to make smoothies. Let's start with Apple surprise! Colour the different decimal parts of your smoothie on the Numicon piece and the jug.



Apple surprise

- 0.2 of a litre of strawberry juice (red)
- 0.4 of a litre of pineapple juice (yellow)
- 0.3 of a litre of apple juice (green)
- 0.1 of a litre of blueberry juice (blue).



Design your own smoothie

Smoothie name: _____

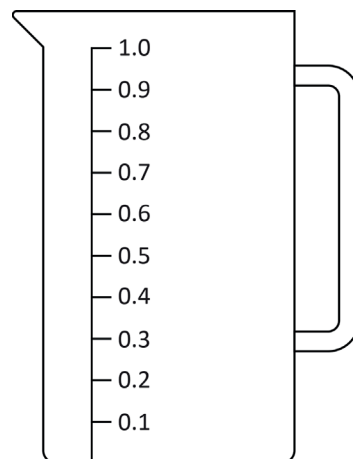
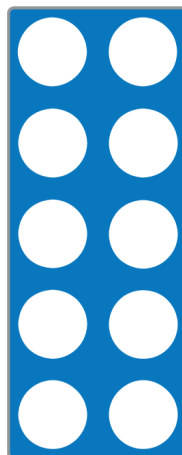
- Colour the different decimal parts of your smoothie on the Numicon piece and the jug.
- Write the decimals for the different flavours of juice in your smoothie.

Apple juice: _____

Blueberry juice: _____

Pineapple juice: _____

Strawberry juice: _____



Taken from the Numicon Essentials Oxford Owl subscription.
Find out more: www.oxfordprimary.com/numicon-essentials

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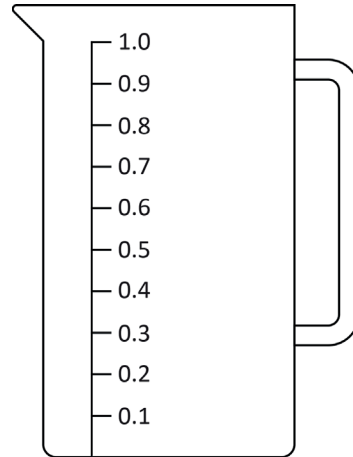
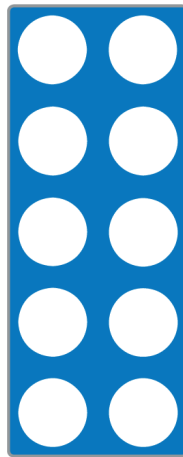
Mystery smoothie

Work out the amounts of juice in the mystery smoothie.

- I have double the amount of apple juice to pineapple juice.
- I have 1 part more of strawberry juice than pineapple juice.
- Any parts left over are filled with blueberry juice.

What decimal value of each juice is in the smoothie?

There is more than one answer!
Can you find another way?

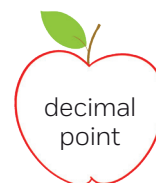
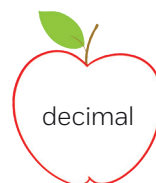


Extension Activity:

What other areas of mathematics are involved in cooking and recipes? List some ideas below.



Use each of these key words in your discussions about making smoothies with your partner.



Practical Activity: Try making your own smoothie recipe in real life. You could use actual juice or water with food colouring. Remember to measure your ingredients carefully!

Making smoothies

TEACHER NOTES



Apple surprise – Answers

Numicon 10-piece: 2 red pegs, 4 yellow pegs, 3 green pegs, 1 blue peg.

Jug: 2 sections of red, 4 sections of yellow, 3 sections of green and 1 section of blue in any order.

Mystery smoothie – Answers

SOLUTION 1:

- 0.2 litre apple juice
- 0.1 litre pineapple juice
- 0.2 litre strawberry juice
- 0.5 litre blueberry juice

Numicon 10-piece: 2 green pegs, 1 yellow peg, 2 red pegs, 5 blue pegs.

Jug: 2 sections of green, 1 section of yellow, 2 sections of red and 5 sections of blue, in any order.

SOLUTION 2:

- 0.4 litre apple juice
- 0.2 litre pineapple juice
- 0.3 litre strawberry juice
- 0.1 litre blueberry juice

Numicon 10-piece: 4 green pegs, 2 yellow peg, 3 red pegs, 1 blue pegs.

Jug: 4 sections of green, 2 sections of yellow, 3 sections of red and 1 section of blue, in any order.