

Maths Problem Solving Week 5

This week's problems are originals, written by the mathematicians at NLPS.

Good Luck

Senior – Poppies and Badges

On ANZAC day, Newport Lakes PS students bought a total of 34 poppies and badges for \$205. Poppies cost \$4 each and badges cost \$7 each. How many badges were purchased?

You may like to check out the following video which demonstrates a strategy that will help you to solve this problem. It does not give you the answer, just a strategy to use.

<https://www.youtube.com/watch?v=m8jUq-Kcq2k>

Middle – Pizza Party

Josie's family were having a pizza party. All the pizzas were the same size.

Josie ate $\frac{4}{5}$ of a pizza.

Daphne ate $\frac{2}{3}$ of a pizza then ate another $\frac{2}{5}$ of a pizza.

Michael ate $\frac{4}{5}$ of a pizza then ate another $\frac{1}{3}$ of a pizza.

Helen ate $\frac{7}{10}$ of a pizza and then ate $\frac{2}{5}$ more.

Questions:

- a. Who ate the most pizza?
- b. Who ate the least pizza?
- c. How many pizzas were consumed altogether?

Junior – Number Cruncher Machine

Elsie follows the instructions on this number crunching machine. What number does she end up with?

