



Addition and Subtraction Home Information Sheet

Second Level (a)



Having determined which calculations are needed, I can solve problems involving whole numbers using a range of methods, sharing my approaches and solutions with others.

NMU 2-03a

I can use my knowledge of rounding to routinely estimate the answer to a problem then, after calculating, decide if my answer is reasonable, sharing my solution with others.

NMU 2-01a

Over the next few weeks we are going to be learning to use numbers within 10 000 to:

- Appreciate that there are several ways to solve the same problem and that the nature of the problem may determine the strategy chosen
- Use our understanding of inverse relationships to find related facts to simplify calculations, e.g. to find $4000 - 500$ think, "500 and what makes 4000?"
- Use commutative, associative and distributive properties to simplify mental calculations, e.g. $4 \times 36 = (4 \times 30) + (4 \times 6)$
- Use knowledge of base ten in calculations, e.g. $120 + 130$; $540 - 320$; $1500 - 600$
- Know the meaning of terms associated with rounding, e.g. guess, estimate, round up, round down, roughly, approximately
- Use skills of estimation and rounding in a range of real life contexts, e.g. I have £30. Do I have enough money to buy 6 at £4.95?
- Compare actual answers to estimates and judge whether the answer is reasonable
- Explain and justify our solutions to others

Here are some ideas of how you can help me at home!

Quick grids Ask children to draw some 3×3 grids. In the top left they draw a + sign. In the other two spaces in the top row and in the left column they write 2- or 3-digit multiples of 10 (or alternatively 3- or 4-digit multiples of 100). Finally, they fill in the remaining four spaces with the totals.

Write a guide Ask children to write a short guide to help younger children to understand how to find totals and differences of multiples of 10 and 100 using facts already known, e.g. how to work out $150 - 80$, $700 + 1600$ or $2500 - 1800$.

Here are some websites that you may find useful to use with me!

Number Twins (Mental Agility Practice) –
<http://www.coolmath-games.com/0-number-twins/index.html>

Addition to 10 000 - <http://resources.woodlands-junior.kent.sch.uk/maths/thousands120.html>

Number Bond Machines (Set your own number, any number up to 10 000)
<http://www.amblesideprimary.com/ambleweb/mentalmaths/numberbond.html>

