# LEARNING and TEACHING POINTS <br> for <br> Chapter 13 <br> Remainders and Rounding 

Explicitly discuss with children the difference in meaning between the remainder in a division problem and the figures after the decimal point in the calculator answer.

When considering practical division problems with the inverse-of-multiplication structure that do not work out exactly when done on a calculator, discuss from the context whether to round up or to round down.

Use division problems that incorporate both the ideas of repeated addition, such as those that ask 'how many do we need?', and repeated subtraction, such as those that ask 'how many can we afford?', and discuss whether the context requires that non-exact answers are rounded up or down.

Emphasize the idea of recording measurements 'to the nearest something' when doing practical measuring tasks.

Use a number-line explanation of rounding to the nearest something, making use of the crucial questions in this process: (a) what number would be halfway? and (b) is my number less or more than this? Emphasize that we do not always use this process, and that it is most important that we first consider the context of the calculation to decide whether we should round up, round down or round to the nearest something.

