Objective: Find the effect of dividing a one or two- digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths

Year 4 Task:

Sam has 100 chocolate buttons. He eats ten buttons while he watches TV.

a) What fraction of the chocolate buttons has he eaten?

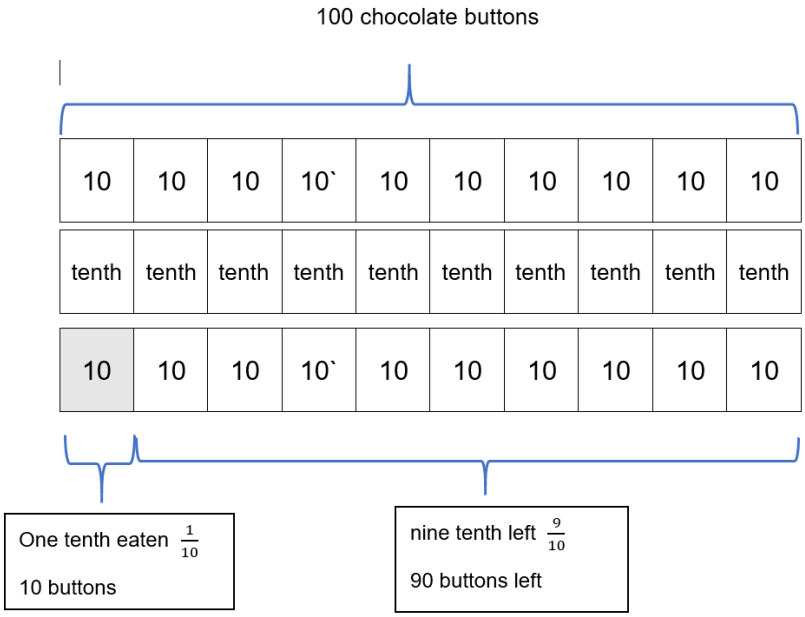
b) What fraction of the chocolate buttons has he got left?

c) How many chocolate buttons does he have left?

Worked example

If the whole groups of buttons divided into 10 equal groups, each group is a tenth ($\frac{1}{10}$) of the whole group of buttons.

$\frac{10}{10}$ = the whole group of buttons



Variation

Sam has 100 chocolate buttons. He eats 70 buttons over the week-end.

a) What fraction of the chocolate buttons has he eaten?
b) What fraction of the chocolate buttons has he got left?
c) How many chocolate buttons does he have left?

Space for recording your solution

Sam has 100 chocolate buttons. He eats $\frac{2}{10}$ of the buttons on Monday and $\frac{4}{10}$ of the buttons in the next two days.

a) What fraction of the chocolate buttons has he eaten?
b) What fraction of the chocolate buttons has he got left?
c) How many chocolate buttons does he have left?

Space for recording your solution

Answers:

$\frac{7}{10}$ eaten, $\frac{3}{10}$ left, 30 buttons

$\frac{2}{10} + \frac{4}{10} = \frac{6}{10}$ eaten, $\frac{4}{10}$ left, 40 buttons