## Year 5 Problems

A piece of string is 2.90 m long.
How many 7 cm lengths of string can be cut from the piece?

## Model answer

I will start by converting one of the measurements, so they are both in the same unit of measurement.

I shall convert 2.90 m to cm .
$100 \mathrm{~cm}=1 \mathrm{~m}$
I must multiply 2.9 by 100
$2.9 \times 100=290$
$2.9 \mathrm{~m}=290 \mathrm{~cm}$
I now need to divide 290 by 7
I shall estimate first:
$10 \times 7=70$
$20 \times 7=140$
$40 \times 7=280$
So I estimate the answer to the problem as a bit more than 40 lengths of string.
I will now divide 290 by 7 using short division


The answer to the calculation is 41 remainder 3. So 41 lengths of string with a remainder of 3 cm of string.

The answer to the problem is 41 lengths of string.

Now try these problems.

If the length of string was 1.85 m how many 7 cm lengths could be cut from it?

Space for working

If the length of string was 1.85 m how many 9 cm lengths could be cut from it?

Space for working

## Answers:

$26 \times 7 \mathrm{~cm}$ lengths
$20 \times 9 \mathrm{~cm}$ lengths

