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## Remainders

Sometimes a division sum doesn't work out exactly and there is an amount left over. This is called a remainder. There are a number of ways of dealing with remainders:

- (i) state the remainder
- (ii) change the remainder to a decimal
- (iii) sensibly round the answer up or down, depending on the initial problem.

(i)  $22 \div 5 = 4$  remainder 2 ( $5 \times 4 = 20$ )

- (ii) £15 is shared equally between 4 people.  
How much do they each receive?

$$4 \overline{) 15.30} \begin{array}{r} 0 \\ 3 \\ 7 \\ 5 \end{array}$$

$15 \div 4 = \underline{\underline{\pounds 3.75}}$

- (iii) Stamps are sold in books of 4. How many books will you need to buy if you require 11 stamps?

$11 \div 4 = 2$  remainder 3 ( $4 \times 2 = 8$ )

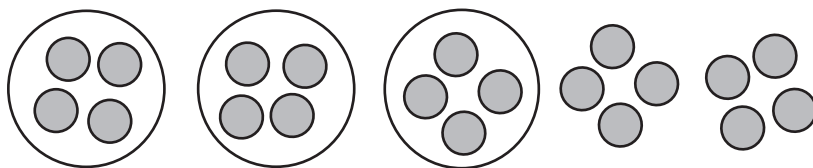
8 stamps is not enough, which means you will need to round the answer up to 3 books of stamps.

Attainment target 2  
Level 5

## Fractions of Amounts

The Fraction  $\frac{3}{5}$  means divide into 5 equal parts and select 3 of the parts.

If you are asked to find  $\frac{3}{5}$  of 20;



$$20 \div 5 = 4, 4 \times 3 = 12$$

$$\text{so } \frac{3}{5} \text{ of } 20 = \underline{12}$$

Attainment target 2  
Level 4

## Decimals

Decimals may also be used to describe a fractional part. Any number which appears after the decimal point represents an amount which is less than one whole.

The number 0.63 is read zero point six three. Each digit after the decimal point must be read separately.