

Using percentages

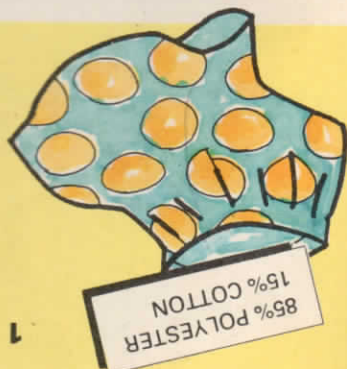
1 The material of this skirt is 85% polyester and 15% cotton.

Find the percentages missing from these labels:

50% POLYESTER
30% WOOL
■% COTTON

■% polyester (c)
33% cotton

80% wool (b)
■% nylon



2 Do these in the same way:



$50\% = \frac{50}{100} = \frac{10}{20} = \frac{1}{2}$

$\frac{100}{50}$ or 50% of this rectangle is red.

Remember

100% = 1 50% = $\frac{2}{4}$ 25% = $\frac{1}{4}$ 75% = $\frac{3}{4}$
20% = $\frac{1}{5}$ 10% = $\frac{1}{10}$ 1% = $\frac{1}{100}$

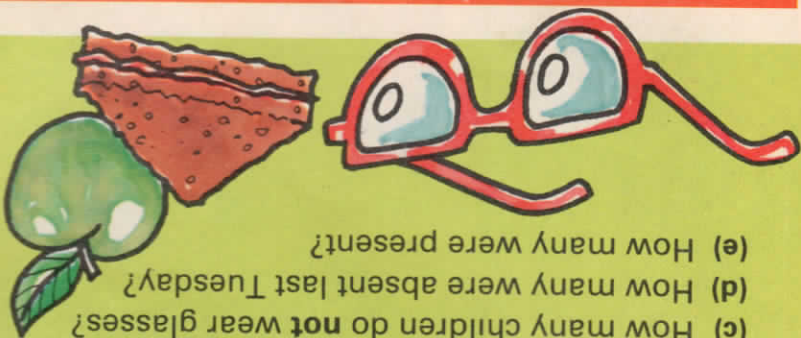
In a class of 28, 25% of the children had chicken pox. How many had chicken pox?

$25\% \text{ of } 28 = \frac{1}{4} \text{ of } 28 = 7$
7 children had chicken pox.

In the same way, find:

- 3 (a) 25% of 12 (b) 25% of 40 (c) 25% of 36 (d) 25% of 8
- 4 (a) 50% of 8 (b) 50% of 12 (c) 50% of 18 (d) 50% of 14
- 5 (a) 10% of 30 (b) 10% of 80 (c) 10% of 10 (d) 10% of 100
- 6 (a) 20% of 10 (b) 20% of 40 (c) 20% of 35 (d) 20% of 45

- 7 (a) How many girls are there in the class?
- (b) How many in the class take school lunch?
- (c) How many children do **not** wear glasses?
- (d) How many were absent last Tuesday?
- (e) How many were present?



There are 20 children in the class.
50% are girls.
25% take school lunch.
20% wear glasses.
10% were absent last Tuesday.

About our class