# PERCENTAGES %

## Finding a quantity as a PERCENTAGE of another

**WORKED EXAMPLES**

1. Class B has 30 pupils; 18 are boys.
   What PERCENTAGE of the pupils in class B are boys?

   18 out of 30 pupils are boys

   $$^{18}/_{30} \times 100\% = 18 \div 30 \times 100\%$$
   $$= 60\% \text{ of the pupils are boys}$$

2. In one week the weight of baby Anna increased from 3000g to 3240g. What is the PERCENTAGE increase in her weight?

   Increase in weight $= 3240 - 3000g$
   $\qquad\qquad\qquad\quad = 240g$

   Increase as a PERCENTAGE of original weight $= {}^{240}/_{3000} \times 100\%$
   $$= 240 \div 3000 \times 100\%$$
   $$= 8\%$$

   Baby Anna's weight has increased by 8% in one week

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## 'Per cent' means out of 100

$$14\% = {}^{14}/_{100} \qquad 26\% = {}^{26}/_{100} \qquad 97\% = {}^{97}/_{100}$$