

I can solve problems using percentages and I can use my answers to compare and make choices in real life situations.

PERCENTAGE OF AN AMOUNT

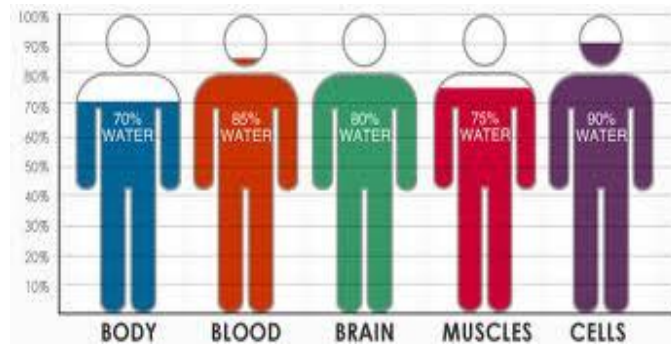
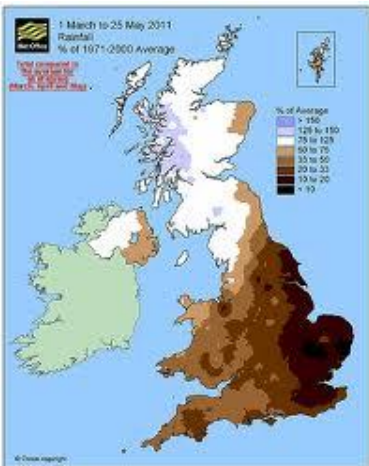
QUESTION

In the UK CO₂ emissions were reduced by 24% from 1980 to 2011. In 1980 644 000 kt of CO₂ was released into the atmosphere by the UK.
How much was released into the atmosphere by the UK in 2011?

ANSWER

$$\begin{aligned}
 & 24\% \text{ of } 644\,000 \\
 &= \frac{24}{100} \times 644\,000 \\
 &= 0.24 \times 644\,000 \\
 &= 154\,560 \text{ kt}
 \end{aligned}$$

$$644\,000 - 154\,560 = 489\,440 \text{ kt}$$



VOCABULARY

percent	out of 100
per annum	per year

SUCCESS CRITERIA/STEPS

I CAN:

- | | |
|---|--|
| a | interpret the question. |
| b | write a percentage as a fraction (out of 100). |
| c | express the word of as x (times). |
| d | change a fraction into a decimal (divide). |
| e | multiply to get an answer |
| f | add or subtract to get my final answer |

HAVE I:

- | |
|--|
| communicated what I have done (shown all working). |
| shown my working neatly and clearly. |
| used pencil and paper whenever possible before reaching for my calculator. |



LIFE SKILLS:

Percentages are everywhere. We use them when shopping, banking, wages, increasing/decreasing a quantity, profit/loss, statistics etc.

Percentages are used in nearly all subjects in school.