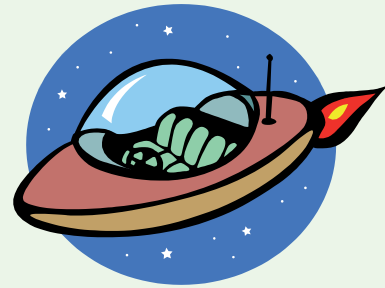# Fun Maths Puzzles

Level 1

Zac has 11 football cards. If he gets 7 more he'll have half as many as his friend Marcus. How many cards does Marcus have?
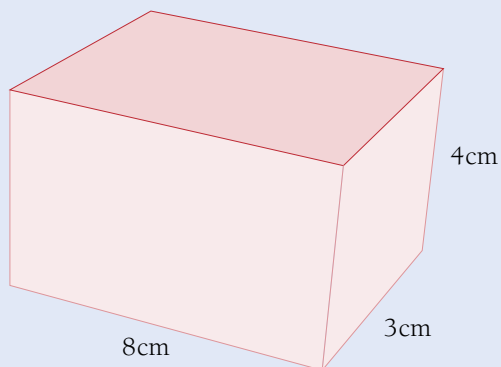
Level 2

At least two Crazo and two Waco spaceships have landed on Earth. Crazo spaceships have 5 landing legs. Waco spaceships have 10 landing legs. There are 45 landing legs altogether.

How many of each type of spaceship might have landed?

Level 3

Which dimension of this solid would you change by 1cm to increase the volume the most?

4cm

3cm

8cm

Level 4

The number 31 702 can be written as $3 \times 10^4 + 1 \times 10^3 + 7 \times 10^2 + 0 \times 10^1 + 2$

Write the number 52 064 using the same method.

Carl Friedrich GAUSS