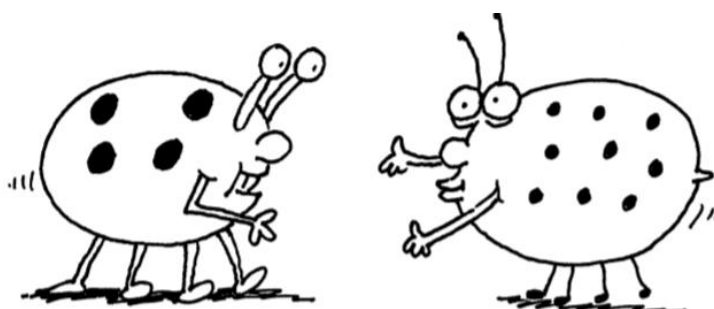**Objective: Solve problems, including missing number problems, involving multiplication and division, including integer scaling problems (e.g. four times as high) and correspondence problems in which m objects are connected to n objects**

Year 3 Task: 'Zids and Zods'

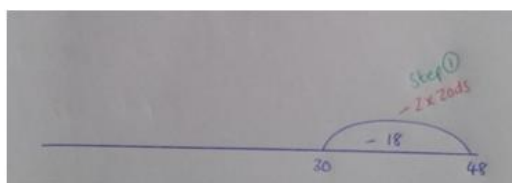https://webarchive.nationalarchives.gov.uk/20110202173247/https://nationalstrategies.standards.dcsf.gov.uk/node/85260

Zids have 4 spots. Zods have 9 spots.

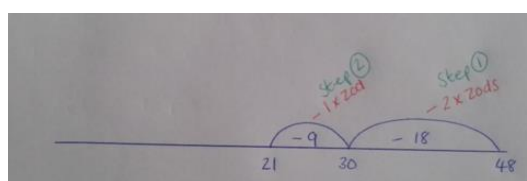**Altogether some Zids and Zods have 48 spots. How many Zids are there? How many Zods?**
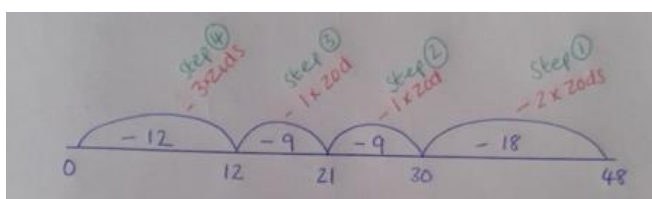
Worked example

Step 1:

30 is not a multiple of 4, so I know that in order to make up the remaining 30 spots, they can't all be just Zids.

Step 2:

21 is not a multiple of 4, so I know that in order to make up the remaining 21 spots, they still can't all be just Zids.

Steps 3 and 4:

12 is a multiple of 4, so I know that in order to make up the remaining 12 spots, there must be 3 Zids.

Therefore there are 3 Zids (12 spots) and 4 Zods (36 spots) to make 48 spots altogether.

HIAS HOME LEARNING

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Variation

- **What if…?**

> **Zids have 5 spots, Zods have 7 spots, and there are 140 spots altogether?**
>
> **Find as many solutions as you can.**

Space for workings