

22.1.21

Investigation

Learning Objective:

We are learning to solve an investigation systematically.

I will be successful if:

- I can be systematic in my working out.
- I can use sentence stems to help explain my thoughts.

Sentence stems

I already know that... so...

I started by...

I checked by...

I decided to... because...

I noticed that...

I wondered why...

The pattern I noticed was...

I used the inverse of...

I used the fact that...

I was systematic because I...

Flashback 4

Year 5 | Week 3 | Day 5

1) 835 ml of juice is poured equally between 5 glasses.

How much juice is in each glass?



2) Work out 38×23

3) Work out 20×60

4) Milo spends £72, £34 and £59

How much does he spend in total?



Challenge

5) $141 \times 100 =$

6) $1.05 \times 1000 =$

7) $0.6 \times 10 =$

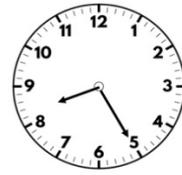
8) $3.6 \times 100 =$

Flashback 4

Year 5 | Week 3 | Day 5

- 1) 835 ml of juice is poured equally between 5 glasses.

How much juice is in each glass? **167 ml**



- 2) Work out 38×23 **874**

- 3) Work out 20×60 **1,200**

- 4) Milo spends £72, £34 and £59

How much does he spend in total? **£165**



Challenge

5) $141 \times 100 = 14,100$

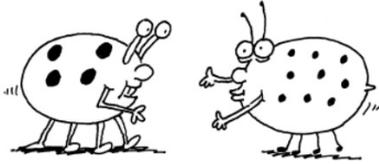
6) $1.05 \times 1000 = 1050$

7) $0.6 \times 10 = 6$

8) $3.6 \times 100 = 360$

Maths investigation

Zids and Zods



Zids have 4 spots.
Zods have 9 spots.

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

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

*Try and be systematic in
your working out.*

Answers

66 Zids and Zods

There are 3 Zids with 4 spots and 4 Zods with 9 spots.

If Zids have 5 spots and Zods have 7 spots, the possible ways of making 140 are:

- 28 Zids;
- 21 Zids and 5 Zods;
- 14 Zids and 10 Zods;
- 7 Zids and 15 Zods;
- 20 Zods.