

15.1.21

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 2 | Day 5



- 1) Calculate 132×14
- 2) Find the area of the rectangle
23 cm
6 cm 
- 3) Two factors of 14 are 1 and 14
What are the other 2 factors?
- 4) What is the next number?

14,300	14,200	14,100	14,000	
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Challenge

5) $85g \times 100 = \underline{\quad} kg$

6) $1.8km + 450m = \underline{\quad} km \underline{\quad} m$

7) $50\% \text{ of } 1.9kg = \underline{\quad} g$

8) $1.5l - ? = 600ml$

Flashback 4

Year 5 | Week 2 | Day 5

1) Calculate 132×14 **1,848**



2) Find the area of the rectangle
23 cm

6 cm  **138 cm²**

3) Two factors of 14 are 1 and 14
What are the other 2 factors? **2 and 7**

4) What is the next number?

14,300	14,200	14,100	14,000	13,900
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Challenge

5) $85g \times 100 = 8.5kg$

6) $1.8km + 450m = 2km \ 250m$

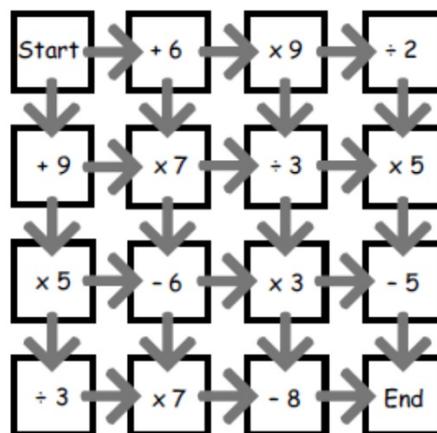
7) $50\% \text{ of } 1.9kg = 950g$

8) $1.5l - 900ml = 600ml$

Maze

Start with zero.

Find a route from 'Start' to 'End' that totals 100 exactly.



Which route has the highest total?

Which has the lowest total?

Now try some different starting numbers.

Answers

62 Maze

There are two routes that total 100 exactly:

$$+ 6 \quad \times 7 \quad - 6 \quad \times 3 \quad - 8 \quad = 100$$

$$+ 9 \quad \times 7 \quad \div 3 \quad \times 5 \quad - 5 \quad = 100$$

The route giving the highest total is:

$$+ 9 \quad \times 7 \quad - 6 \quad \times 7 \quad - 8 \quad = 391$$

The route giving the lowest total is:

$$+ 6 \quad \times 7 \quad \div 3 \quad \times 3 \quad - 8 \quad = 34$$