

5.3.21

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...

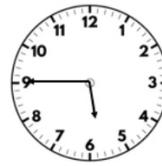
I used the inverse of...

I used the fact that...

I was systematic because I...

Flashback 4

Year 5 | Week 8 | Day 5



- 1) Subtract $\frac{1}{3}$ from $\frac{5}{6}$
- 2) Calculate $\frac{3}{7} + \frac{2}{7} + \frac{4}{7}$
- 3) Write a fraction that is equivalent to $\frac{2}{7}$
- 4) Which is the greatest number?

6.3 6.13 6.209



Challenge

5) 0.05, 0.1, 0.15, __, __, __

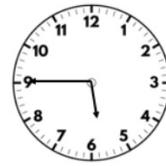
6) 1.18, 0.16, 0.14, __, __, __

7) 5.4, __, __, __, 3.0, 2.4

8) 0.22, __, 0.3, __, 0.38, __

Flashback 4

Year 5 | Week 8 | Day 5



1) Subtract $\frac{1}{3}$ from $\frac{5}{6}$ $\frac{3}{6}$ or $\frac{1}{2}$

2) Calculate $\frac{3}{7} + \frac{2}{7} + \frac{4}{7}$ $\frac{9}{7}$ or $1\frac{2}{7}$

3) Write a fraction that is equivalent to $\frac{2}{7}$ $\frac{4}{14}$, $\frac{10}{35}$

4) Which is the greatest number?

6.3 6.13 6.209

6.3



Challenge

5) 0.05, 0.1, 0.15, 0.2, 0.25, 0.3

6) 1.18, 0.16, 0.14, 0.12, 0.1, 0.08

7) 5.4, 4.8, 4.2, 3.6, 3.0, 2.4

8) 0.22, 0.26, 0.3, 0.34, 0.38, 0.42

Shape puzzle

Each shape stands for a number.

The numbers shown are the totals of the line of four numbers in the row or column.

▲	♣	▲	●	<input type="text"/>
♣	●	♣	▲	25
●	●	●	●	20
▲	♣	♣	▲	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	26	

Find the remaining totals.

Which line or shape would be the best one to start with and why?

Discuss

How were you systematic?

Was there a method that helped you solve it?

Extension

Now create your own shape puzzle for a friend.

Answer

72 Shape puzzle

The circle has the value 5.
The triangle has the value 8.
The club has the value 6.

▲	♣	▲	○	27
♣	○	♣	▲	25
○	○	○	○	20
▲	♣	♣	▲	28
27	22	25	26	