26.2.21 Investigation

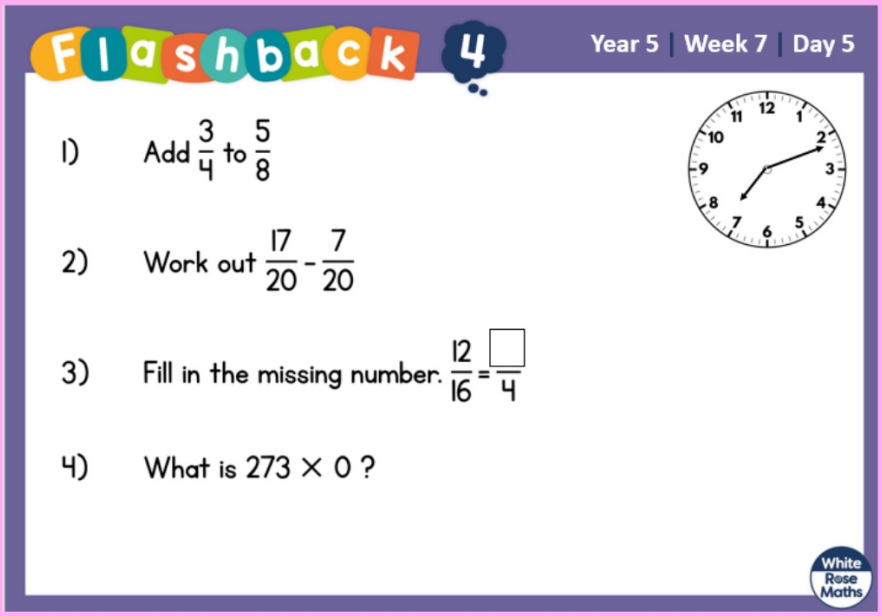
Learning Objective:
We are learning to solve an investigation systematically.

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...



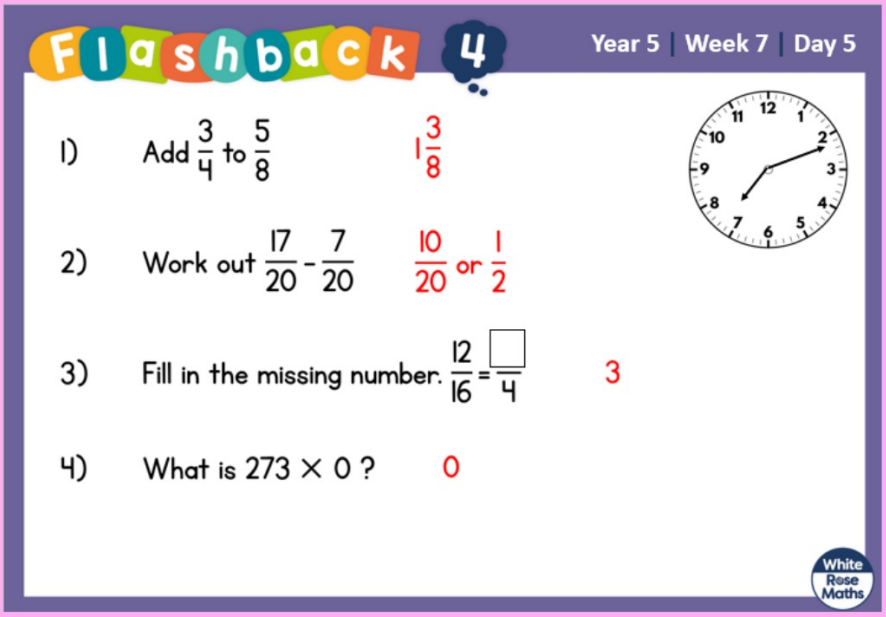
Challenge - simplify these fractions to their lowest form

5) $\frac{54}{99}$

6) $\frac{30}{70}$

7) $\frac{70}{420}$

8) $\frac{27}{90}$



Challenge - simplify these fractions to their lowest form

5) $\frac{6}{11}$

6) $\frac{3}{7}$

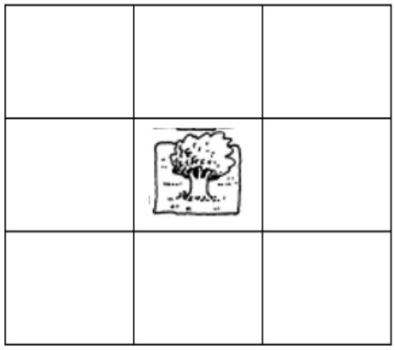
7) $\frac{1}{6}$

8) $\frac{3}{10}$

Maths investigation

Albert Square

36 people live in the eight houses in Albert Square.
Each house has a different number of people living in it.
Each line of three houses has 15 people living in it.
How many people live in each house?



Can you find more than one way to solve this problem?

Discussion

Did you find any methods that worked well?

How were you systematic in your approach?

Can you now create your own problem similar to this?

Possible solution

68 Albert Square

For example: