Day 1

Maths- 5 a day

1. 453 + 39 =

2. What is the difference between 19 and 63?

3. 453 - 63 =

4. How many minutes are there in 2 hours?

5. Complete the number sequence

   1, 6, 11, 16, __, __

Day 1 ANSWERS

Maths- 5 a day

1. 453 + 39 = 492

2. What is the difference between 19 and 63? 44

3. 453 - 63 = 390

4. How many minutes are there in 2 hours? 120 minutes

5. Complete the number sequence

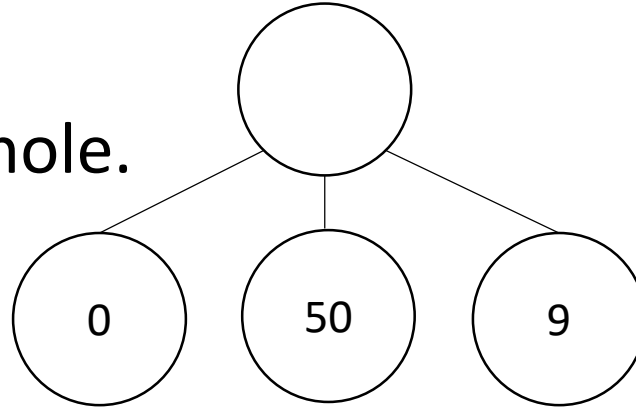   1, 6, 11, 16, 21, 26

Day 2

Maths- 5 a day

1. 245 + 254 =

2. 7 + 7 + 3 =

3. Complete the part part whole.

   0   50   9

4. Put these numbers in descending order.

   45, 5, 4, 54, 145, 254
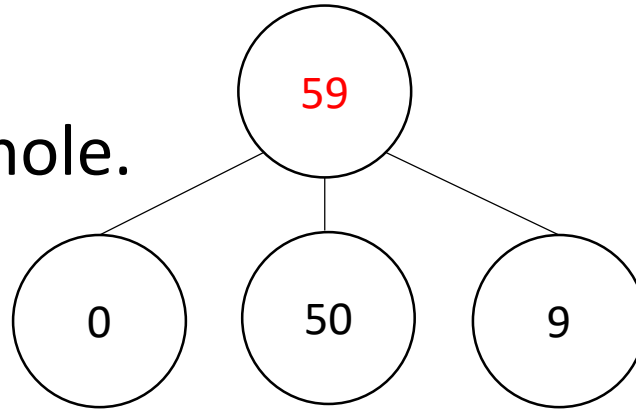
5. What month comes after March?

Day 2 ANSWERS

Maths- 5 a day

1. 245 + 254 = 499

2. 7 + 7 + 3 = 17

3. Complete the part part whole.

59

0   50   9

4. Put these numbers in descending order.

254, 145, 54, 45, 5, 4
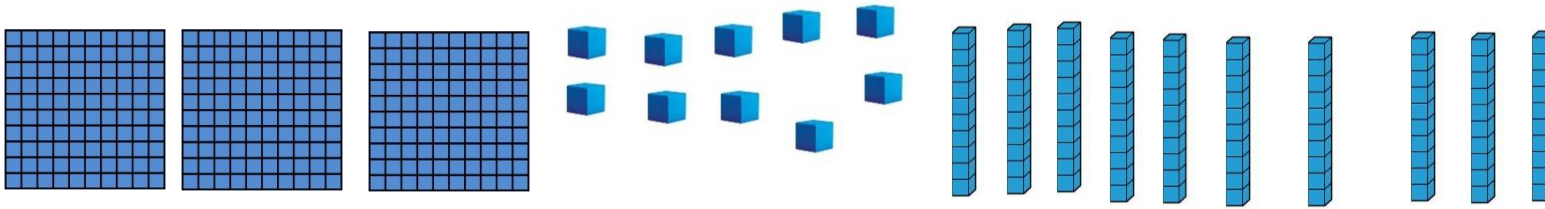
5. What month comes after March? April

Day 3

Maths- 5 a day

1. 746 + 155 =

2. What is 10 more than 592?

3. What number is represented by the dienes?

4. 24 ÷ 4 =

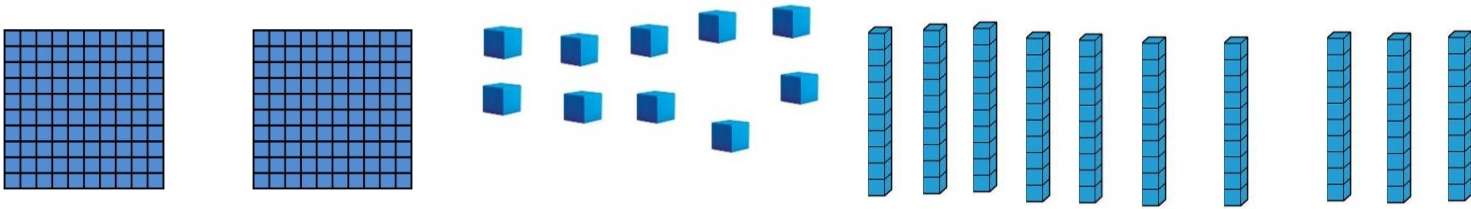5. How many days are there In January and February in total?

Day 3 ANSWERS

Maths- 5 a day

1. 746 + 155 = 901

2. What is 10 more than 592? 602

3. What number is represented by the dienes? 310

4. 24 ÷ 4 = 6

5. How many days are there In January and February in total? 59

Day 4

Maths- 5 a day
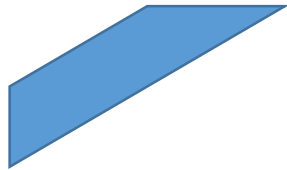
1. 734 + 171 =

2. 822 - 134 =

3. Use =<> to make the sentence true. The number of days in June ___ the number of days in July.

4. True or false? This shape is a quadrilateral.

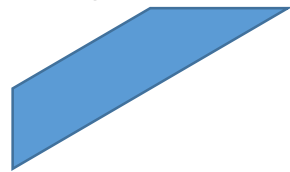5. Complete the number sequence..

    15, 18, 21, __, __

Day 4 ANSWERS

Maths- 5 a day

1. 734 + 171 = 905

2. 822 - 134 = 688

3. Use =<> to make the sentence true. The number of days in June < the number of days in July.

4. True or false? This shape is a quadrilateral. True

5. Complete the number sequence..

15, 18, 21, 24, 27

Day 5

Maths- 5 a day

1. 533 + 267 =

2. 216 - 54 =

3. Complete the part-part whole.

   178

   100
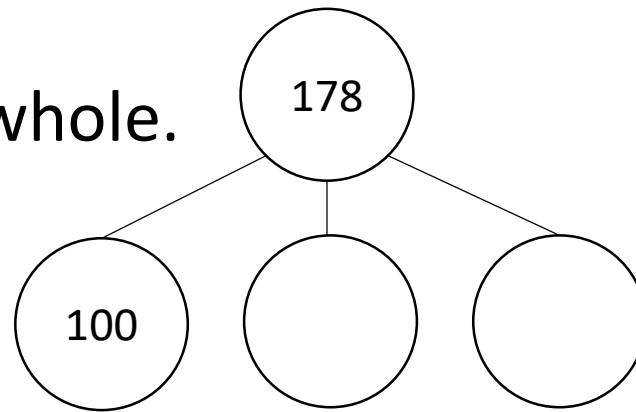
4. Complete the number sequence.

   24, 28, 32, __, __

5. What is the difference between 125 and 111?
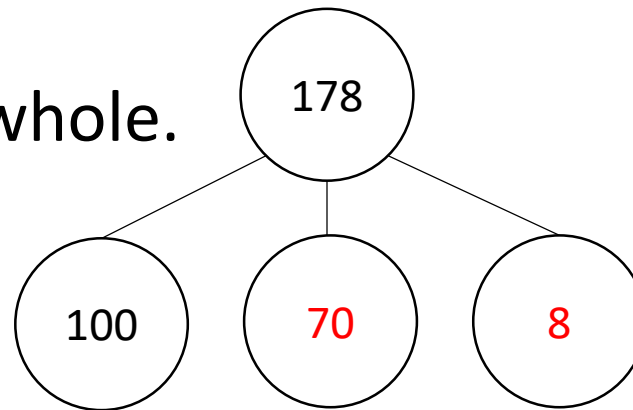
Day 5 ANSWERS

Maths- 5 a day

1. 533 + 267 = 800

2. 216 - 54 = 162

3. Complete the part-part whole.

178

100   70   8

4. Complete the number sequence.

24, 28, 32, 36, 40

5. What is the difference between 125 and 111? 14

Summer 2 Week 1 Task 1

To work systematically to solve problems

This week we are going to be learning to work systematically to help solve problems. This means we will need to…

- organise our work clearly

- choose a sensible place to start

- change one thing at a time

For task one we are all going to work together. In task 2 you are going to solve a very similar problem so you can use what you have done in task 1 to help you. Task 3 has 3 problems which all will need you to use systematic working to help solve.

Note – Problem 3 in task 3 is an optional challenge.

To work systematically to solve problems

Half time scores

At fulltime in a Southampton FC vs Manchester City football match the score was 4-2 to Southampton.

What could the score have been at half time?

Find all the possibilities.

To work systematically to solve problems

At fulltime in a Southampton FC vs Manchester City football match the score was 4-2 to Southampton.

What could the score have been at half time?

Find all the possibilities.

Step 1: Re-read the problem

Step 2: Plan how you are going to organise your work.

I am going to choose to us S for Southampton and M for Manchester in my work to help show the different team's scores. I am also going to write my working out in neat columns.

To work systematically to solve problems

At fulltime in a Southampton FC vs Manchester City football match the score was 4-2 to Southampton.

What could the score have been at half time?

Find all the possibilities.

Step 3: Choose where to start to solve the problem in a systematic way.

I am going to start at the lowest possible score which is $0 - 0$.

S 0 - M 0

To work systematically to solve problems

At fulltime in a Southampton FC vs Manchester City football match the score was 4-2 to Southampton.

What could the score have been at half time?

Find all the possibilities.

Step 4: Continue solving the problem working in a systematic way.

I am going to choose to only change S score and leave M as 0 until I cannot find any more possibilities. How many can you find using this system?

S 0 - M 0

S 1 - M 0

To work systematically to solve problems

At fulltime in a Southampton FC vs Manchester City football match the score was 4-2 to Southampton.

What could the score have been at half time?

Find all the possibilities.

Step 4: Continue solving the problem working in a systematic way.

You should have found 5 possible scores keeping M the same. Here they are...

S 0 - M 0

S 1 - M 0

S 2 - M 0

S 3 - M 0

S 4 - M 0

To work systematically to solve problems

At fulltime in a Southampton FC vs Manchester City football match the score was 4-2 to Southampton.

What could the score have been at half time?

Find all the possibilities.

Step 5: Continue solving the problem working in a systematic way.

Now find all the possibilities if M was 1.

S 0 - M 1

To work systematically to solve problems

At fulltime in a Southampton FC vs Manchester City football match the score was 4-2 to Southampton.

What could the score have been at half time?

Find all the possibilities.

Step 5: Continue solving the problem working in a systematic way.

There are 5 possibilities if M was 1.

S 0 - M 1

S 1 - M 1

S 2 - M 1

S 3 - M 1

S 4 - M 1

To work systematically to solve problems

At fulltime in a Southampton FC vs Manchester City football match the score was 4-2 to Southampton.

What could the score have been at half time?

Find all the possibilities.

Step 6: Continue solving the problem working in a systematic way.

Now find all the possibilities if M was 2.

S 0 - M 2

To work systematically to solve problems

At fulltime in a Southampton FC vs Manchester City football match the score was 4-2 to Southampton.

What could the score have been at half time?

Find all the possibilities.

Step 6: Continue solving the problem working in a systematic way.

Now find all the possibilities if M was 2.

S 0 - M 2

S 1 - M 2

S 2 - M 2

S 3 - M 2

S 4 - M 2

To work systematically to solve problems

At fulltime in a Southampton FC vs Manchester City football match the score was 4-2 to Southampton.

What could the score have been at half time?

Find all the possibilities.

We can't have more then 4 goals for Southampton or 2 Goals for Manchester City so we can't change either teams scores any more.

S 0 - M 0   S 0 - M 1   S 0 - M 2
S 1 - M 0   S 1 - M 1   S 1 - M 2
S 2 - M 0   S 2 - M 1   S 2 - M 2
S 3 - M 0   S 3 - M 1   S 3 - M 2
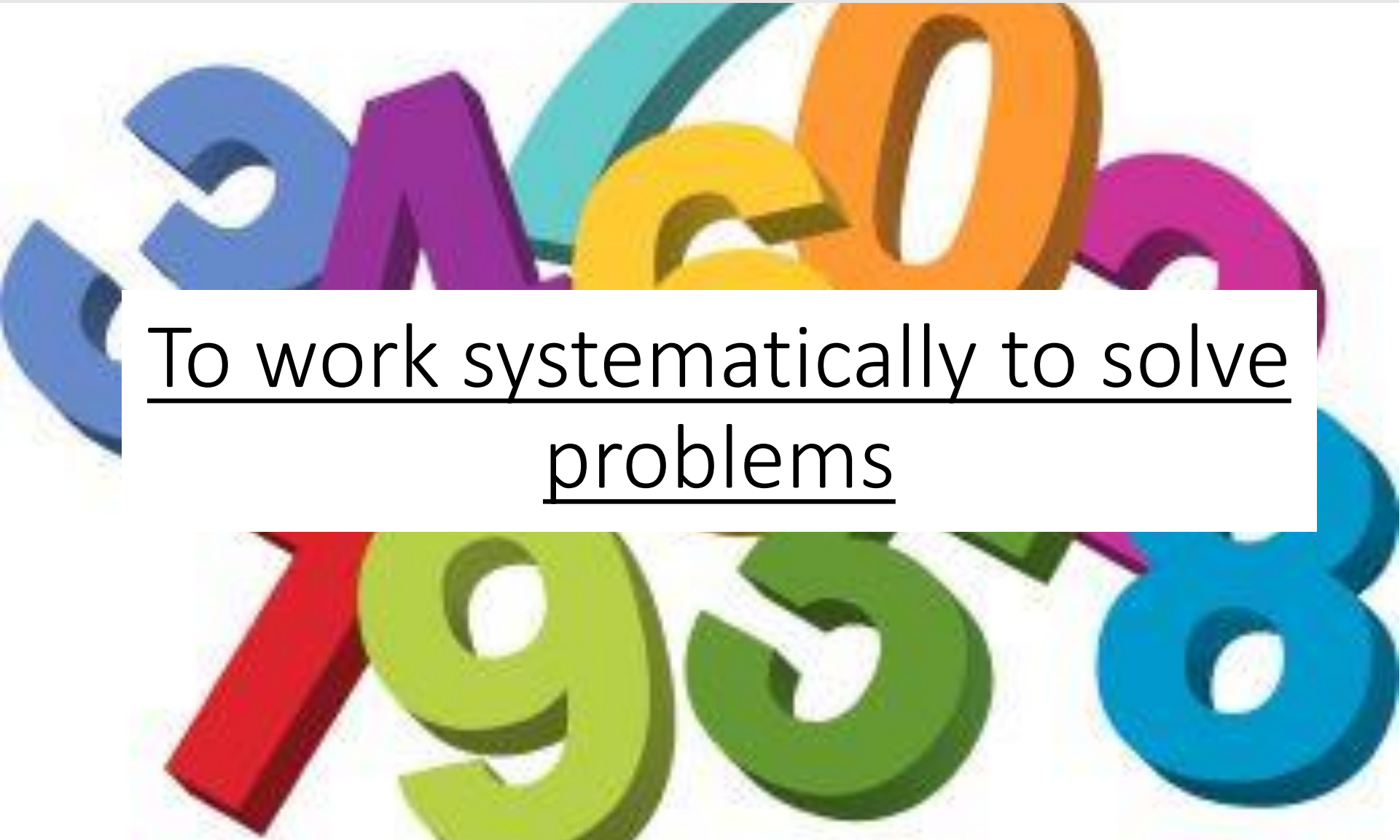S 4 - M 0   S 4 - M 1   S 4 - M 2

We have found that there are 15 possible half time scores for this football match.

Summer 2 Week 1 Task 2

To work systematically to solve problems

To work systematically to solve problems

Half time scores

At fulltime in a Manchester City vs Southampton FC football match the score was a **3-3 draw**.

What could the score have been at half time?

Find all the possibilities.

To work systematically to solve problems

Half time scores

At fulltime in a Manchester City vs Southampton FC football match the score was a **3-3 draw**.

What could the score have been at half time?

Find all the possibilities.

Solve this problem using the same systematic approach as we did in task 1.

TOP TIPS

- Start with the lowest possible score
- Change one thing at a time
- Organise your work neatly

To work systematically to solve problems

ANSWER

There are 16 possible half time scores for a match ending in a 3-3 draw.
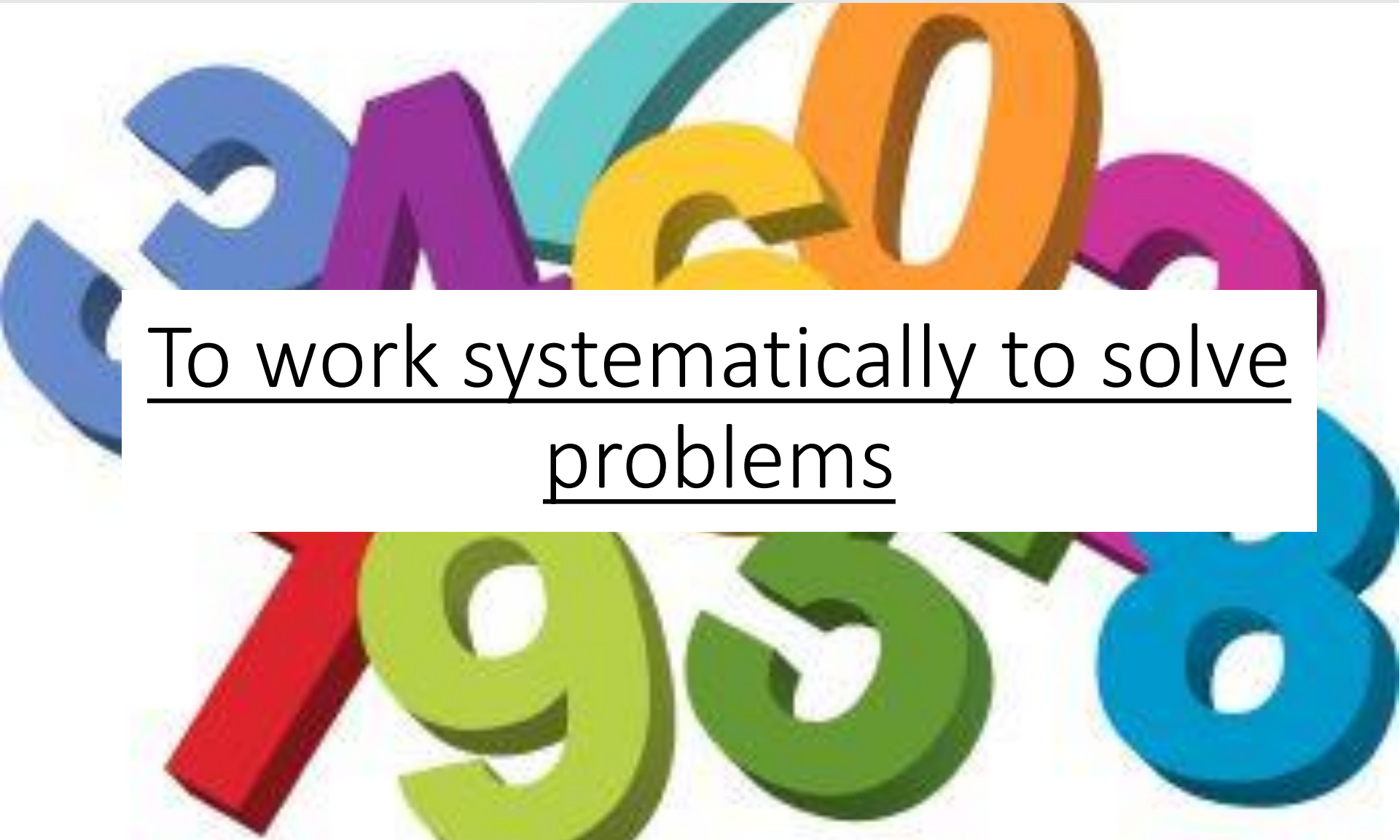
Half time scores

At fulltime in a Manchester City vs Southampton FC football match the score was a **3-3 draw**.

What could the score have been at half time?

Find all the possibilities.

S 0 – M 0	S 0 – M 1	S 0 – M 2	S 0 – M 3
S 1 – M 0	S 1 – M 1	S 1 – M 2	S 1 – M 3
S 2 – M 0	S 2 – M 1	S 2 – M 2	S 2 – M 3
S 3 – M 0	S 3 – M 1	S 3 – M 2	S 3 – M 3

Summer 2 Week 1 Task 3

To work systematically to solve problems

To work systematically to solve problems

Problem 1

Using the digits 2,4,6 only once how many different three digit numbers can you make?

2   4   6

TOP TIPS
- Start with the lowest possible number
- Change one thing at a time
- Organise your work neatly

To work systematically to solve problems

Problem 1 **ANSWER**

You can make 6 different three digit numbers using the digits 2, 4 and 6.

2 4 6

2 6 4

4 2 6

4 6 2

6 2 4

6 4 2

TOP TIPS

- Start with the lowest possible number
- Change one thing at a time
- Organise your work neatly
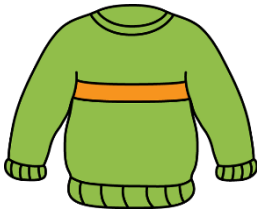
To work systematically to solve problems

Problem 2

A school is choosing a new school uniform. Below is the possible choices of clothes. How many different possible combinations are there?
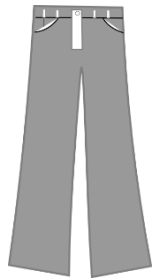
Red jumper   Green jumper   Blue jumper

Black trousers   Grey trousers   Navy trousers

Not for this one.

TOP TIPS
- Start with the lowest possible number
- Change one thing at a time
- Organise your work neatly

To work systematically to solve problems

Problem 2 ANSWER

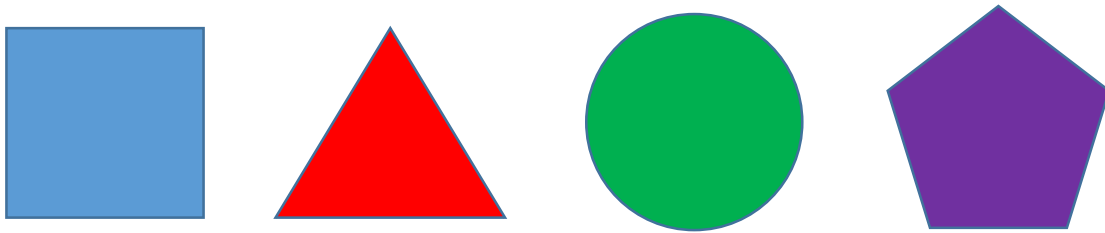There are 9 possible combinations for the school's new uniform.

Not for this one.

TOP TIPS

- Start with the lowest possible number
- Change one thing at a time
- Organise your work neatly

To work systematically to solve problems

Problem 3 EXTRA CHALLENGE

You have four shapes...

How many different ways can you organise them in a row?

Not for this one.

TOP TIPS
- Start with the lowest possible number
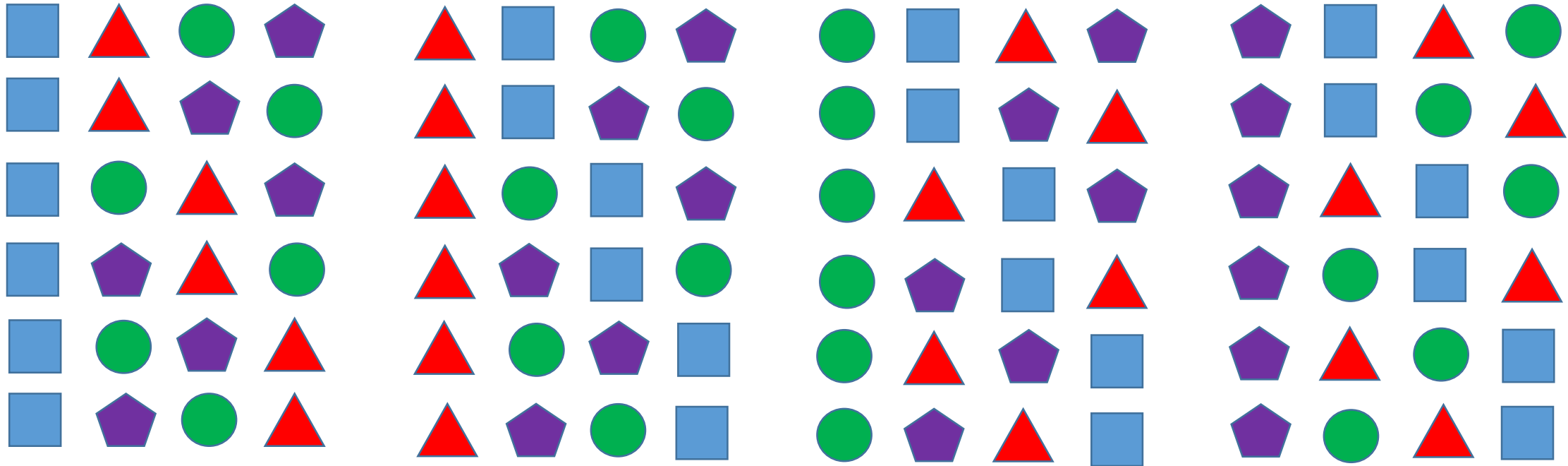- Change one thing at a time
- Organise your work neatly

To work systematically to solve problems

Problem 3 EXTRA CHALLENGE ANSWER

There are 24 possible combinations of the four shapes. Well done if you found them all!