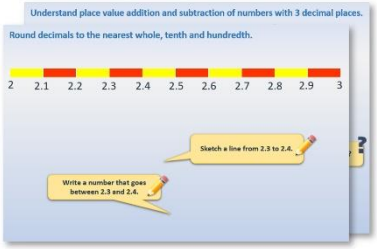
Year 1: Week 5, Day 5

Find a difference in lengths

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



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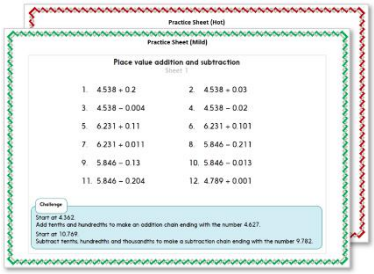
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either Mild (easier) or Hot (harder)! Check the answers.



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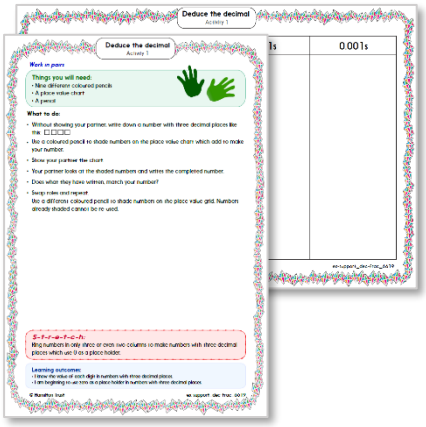
3. Finding it tricky? That's OK… have a go with a grown-up at **A Bit Stuck?**



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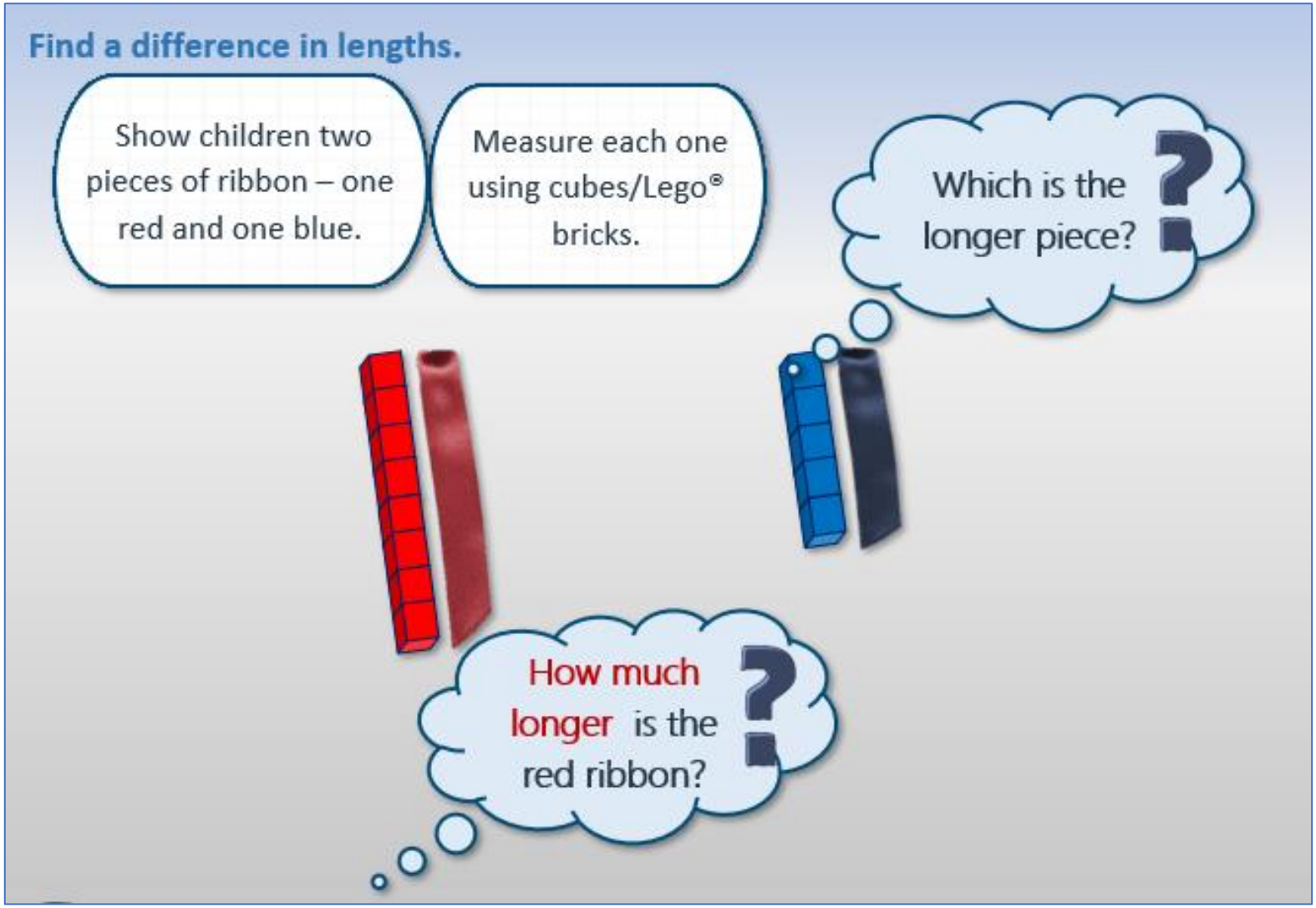
4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**…

Learning Reminders



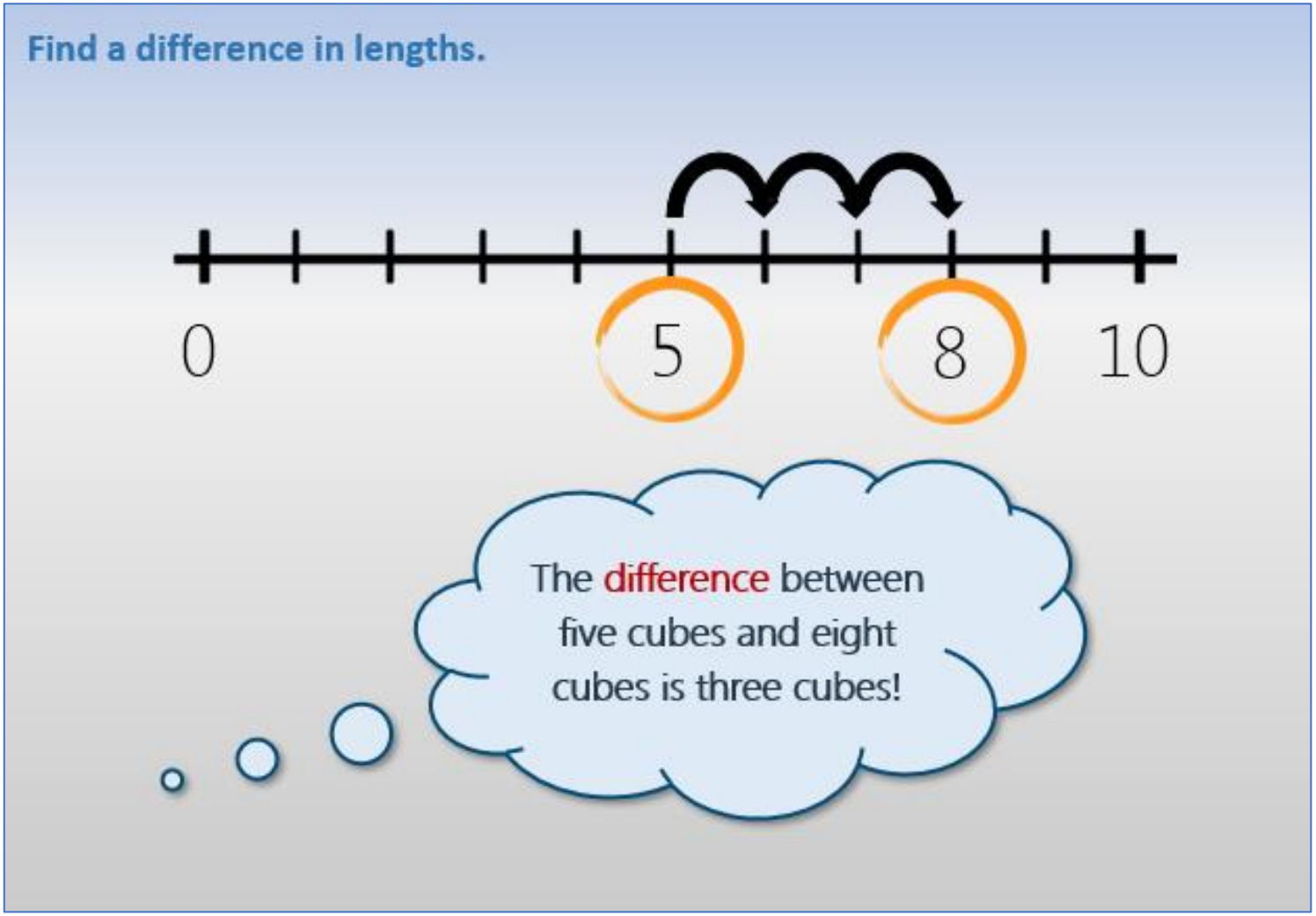
Learning Reminders

Find a difference in lengths.

The red tower has got *3 more* cubes than the blue tower.

Snap off the 3 extra red cubes/bricks to demonstrate.

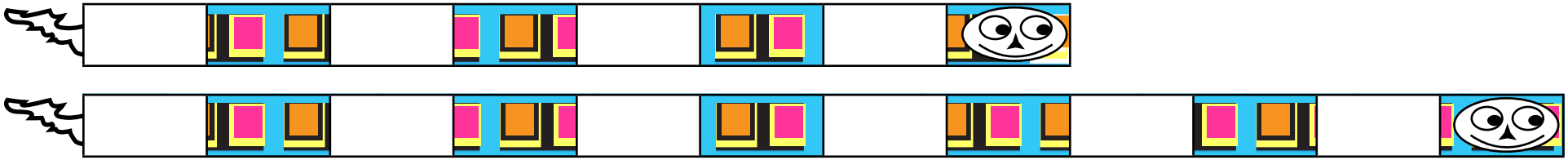
Learning Reminders



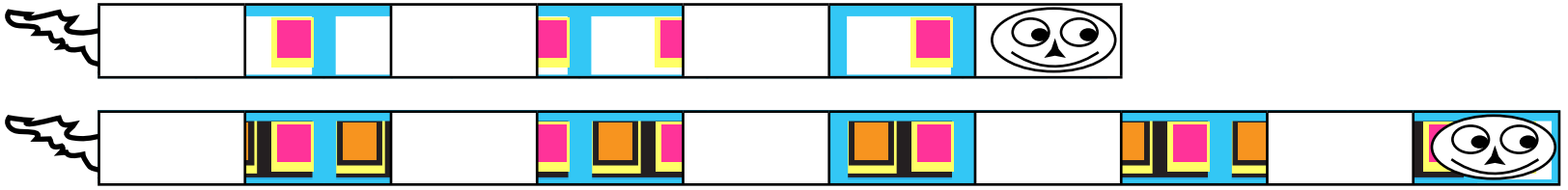
Practice Sheet Mild

What's the difference between the snakes?

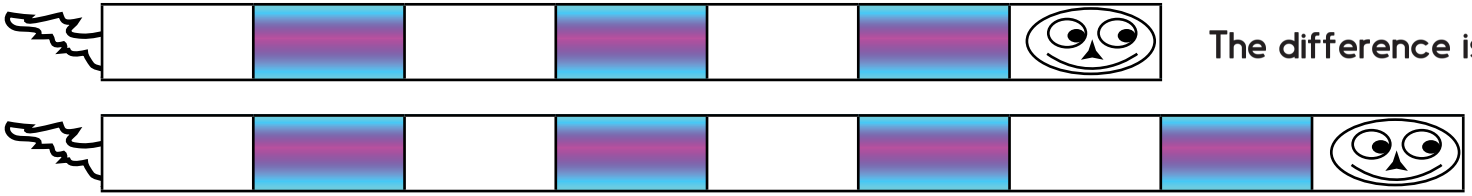
The difference is



The difference is



The difference is

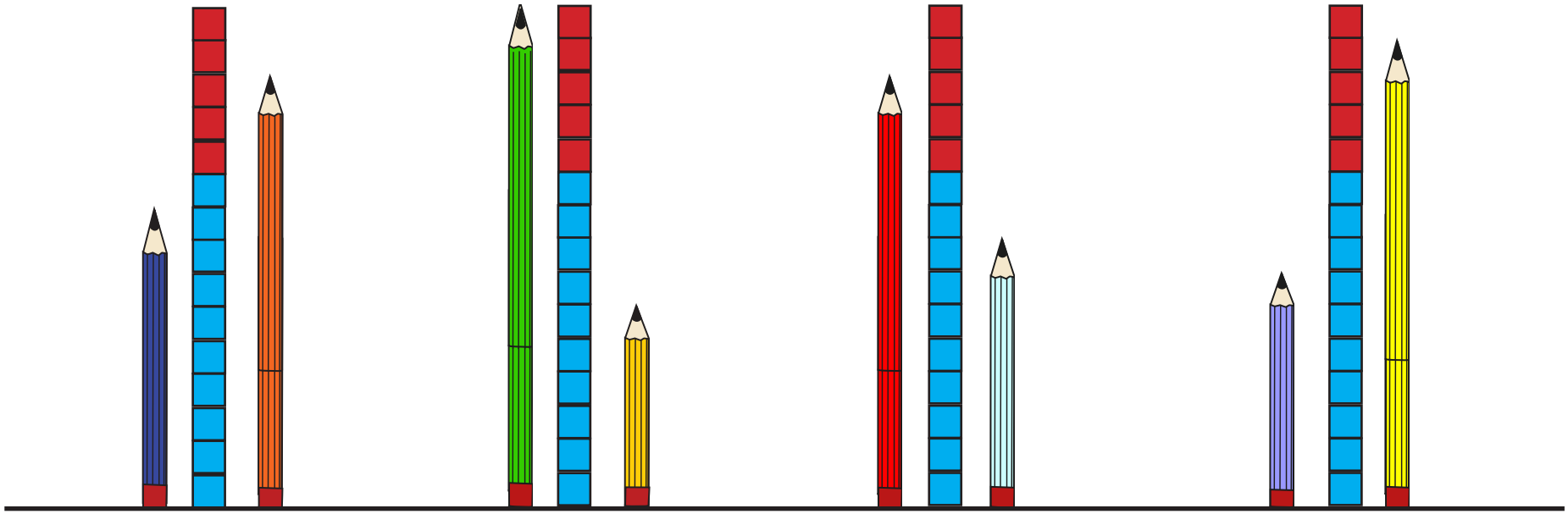


The difference is

Practice Sheet Hot

What's the difference?

The difference is...



... ☐ cubes ... ☐ cubes ... ☐ cubes ... ☐ cubes.

Practice Sheets Answers

What's the difference between snakes? (mild)

1. The difference is 1 cube.
2. The difference is 4 cubes.
3. The difference is 3 cubes.
4. The difference is 2 cubes.

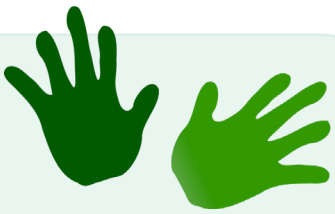
Day 3 What's the difference? (hot)

1. The difference is 4 cubes.
2. The difference is 9 cubes.
3. The difference is 5 cubes.
4. The difference is 7 cubes.

A Bit Stuck?
Tall towers

Work in pairs

Things you will need:
- Cubes/Lego bricks
- 6-12 number cards
- A pencil



What to do:

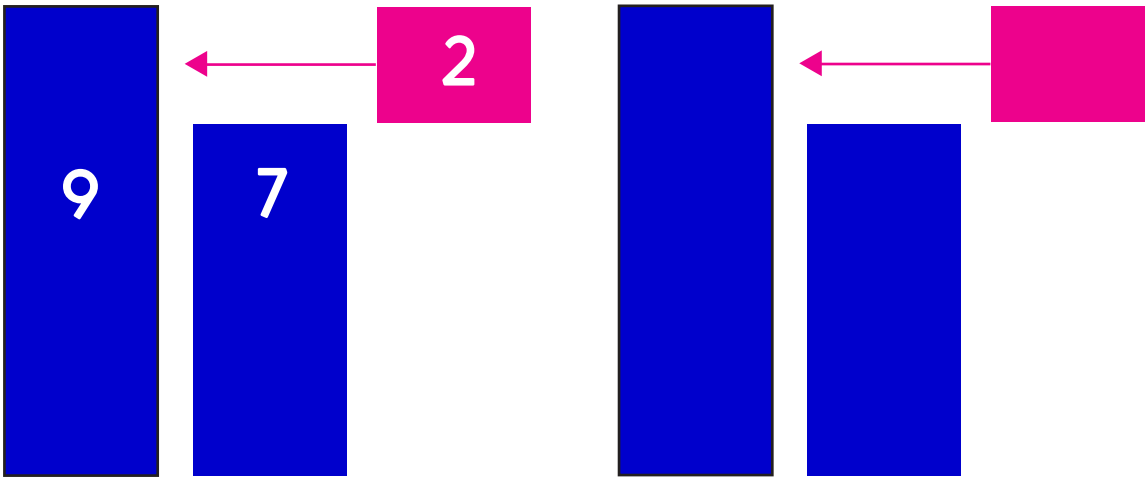
Shuffle the number cards.
Place face down in a pile.

Take the top card.
Build a tower using that number of cubes/Lego bricks.

Your partner does the same.

What is the difference between your two towers? Write the three numbers in one of the pictures.

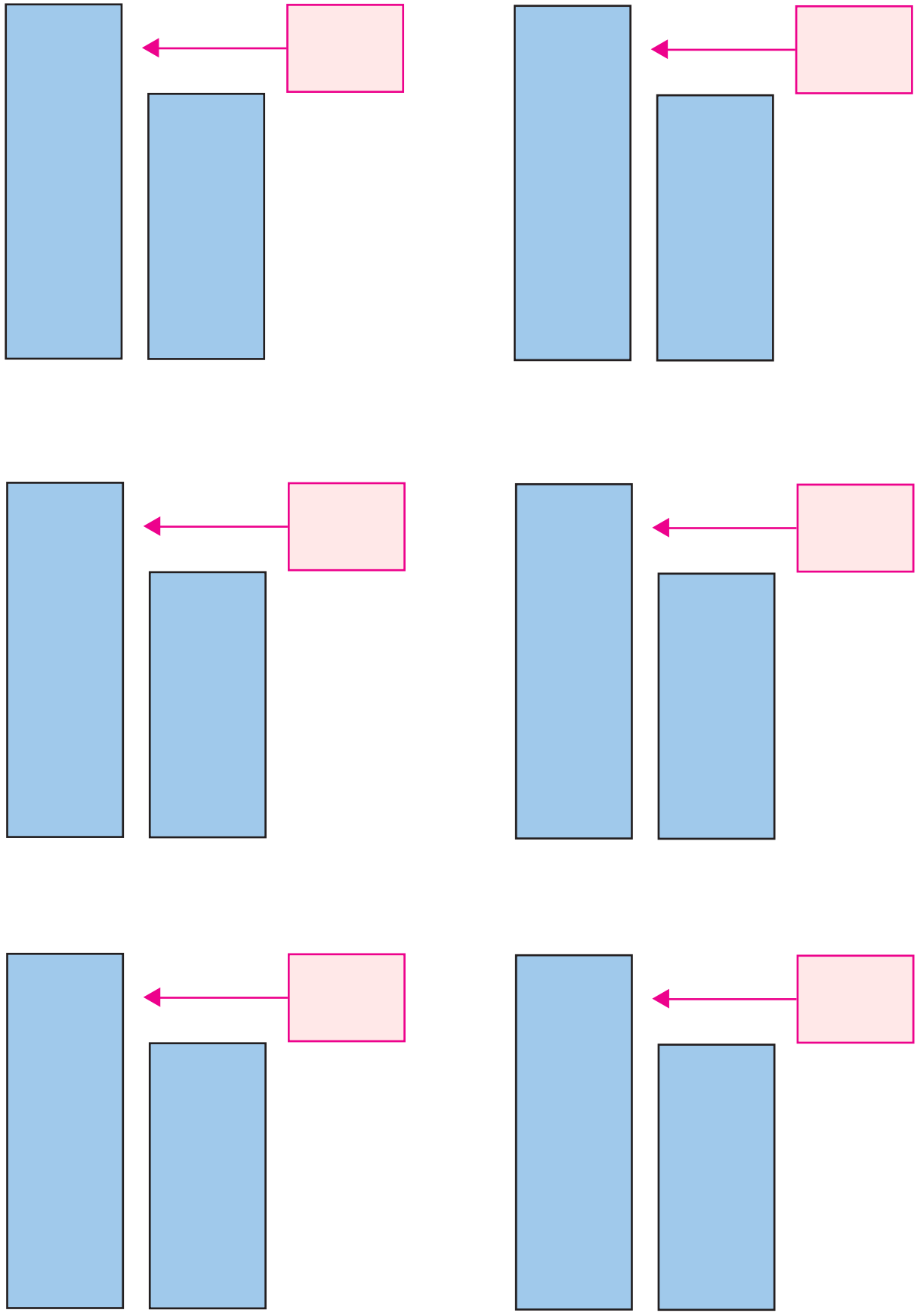
Repeat with other pairs of cards.



S-t-r-e-t-c-h:
Make a pair of towers with a difference of 3 cubes/Lego bricks.
Write down the pair of numbers.

Learning outcomes:
- I can find a difference between pairs of towers.
- I am beginning to find pairs of towers with a given difference.

A Bit Stuck?
Tall towers



A Bit Stuck?

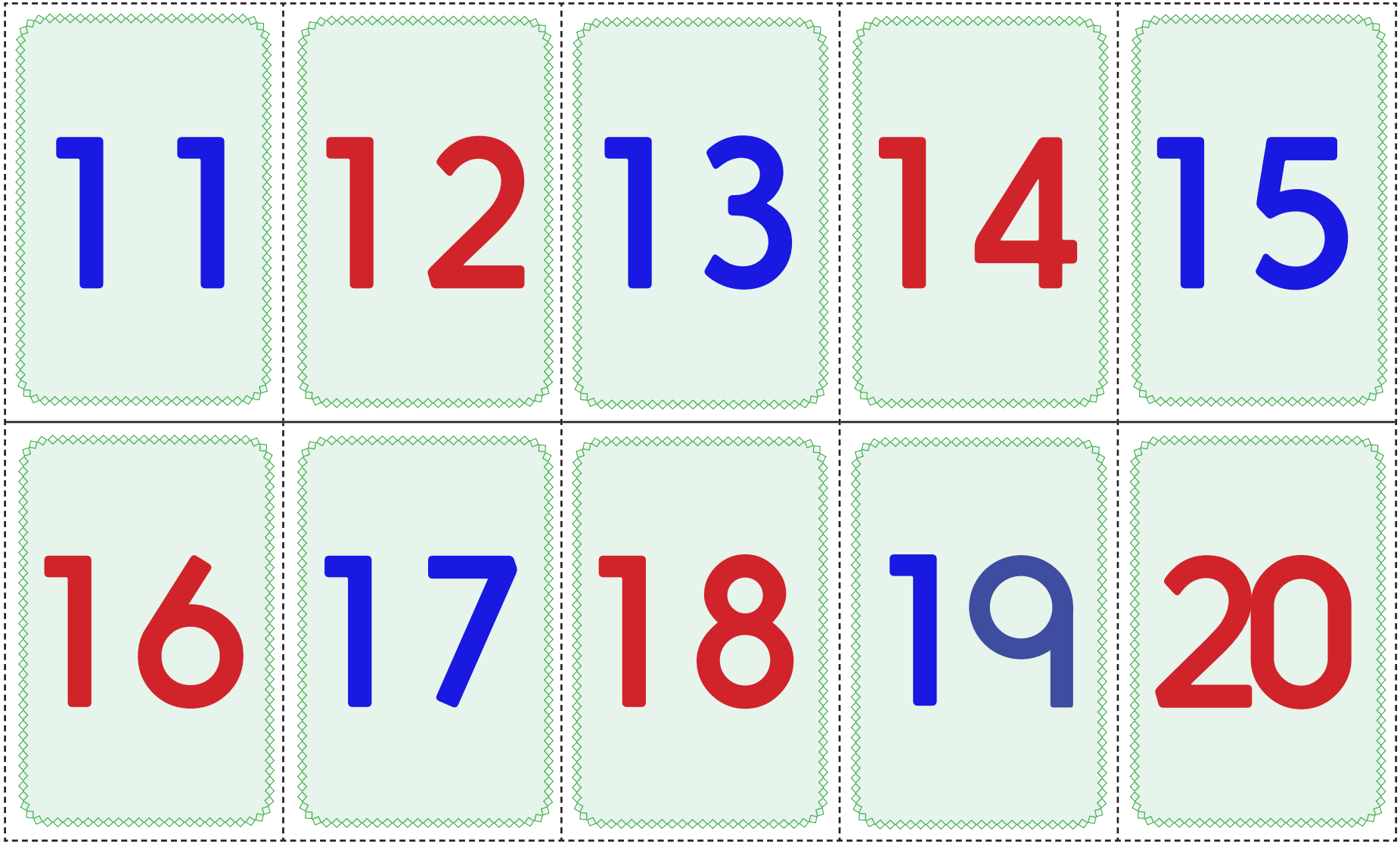
Number cards

1	2	3	4	5
6	7	8	9	10

Explore more Hamilton Trust Learning Materials at https://wrht.org.uk/hamilton

A Bit Stuck?

Number cards



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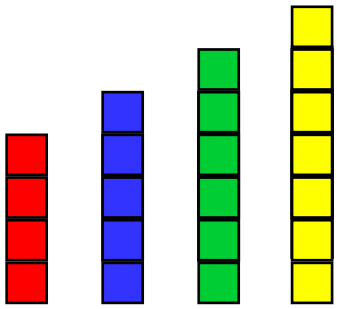
Investigation
Four towers

1. Make four towers of cubes/Lego bricks, one each of 4, 5, 6 and 7 cubes/Lego bricks.



2. Can you arrange the towers so that any pair of next door towers have a difference of 2 cubes/Lego bricks or more? That is to say one tower is 2 cubes/Lego bricks taller more than its neighbour.

3. Can you find a different way to do this?

4. How many ways are there? Can you show that you have them all?

Challenge

Try again with four towers made from 5, 6, 7 and 8 cubes/Lego bricks. Or four other numbers between 5 and 10.