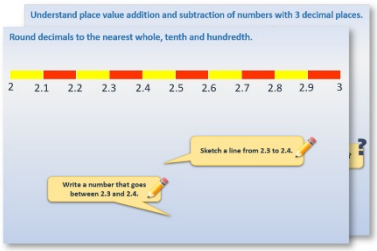
Week 14, Day 5
Number lines

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

1. Start by sharing the **Practical activity**.



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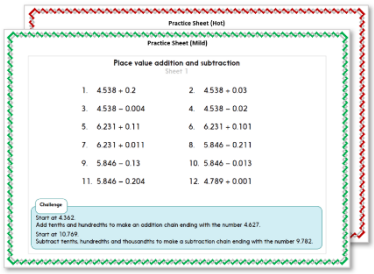
2. Tackle the questions on the **Practice Sheet**.
There might be a choice of either Mild (easier) or Hot (harder)!
Check the answers.



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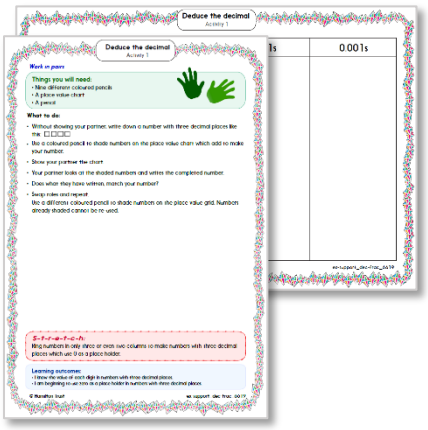
3. Finding it tricky? That's OK… have a go with a grown-up at **A Bit Stuck?**



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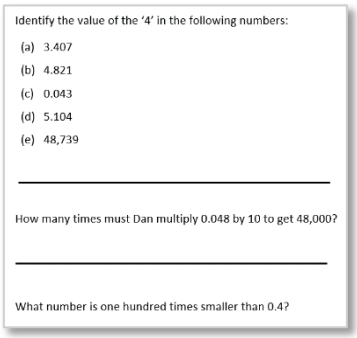
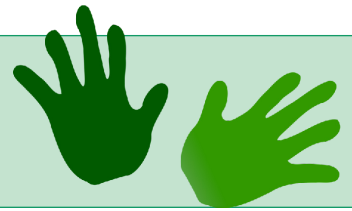
4. Have I mastered the topic? A few questions to **Check your understanding**.
Fold the page to hide the answers!



Practical Activity
'In-betweenies'

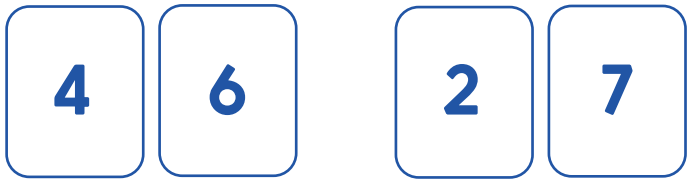
You will need:
- A set of 1 to 9 digit cards (see resources)
- A sheet of landmarked 0-100 lines (see resources)
- Coloured pencils



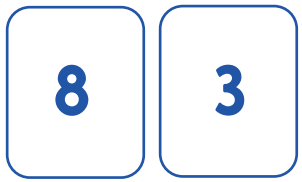
What to do:

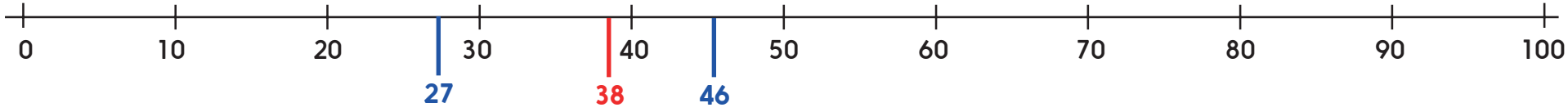
- With a partner, shuffle the 1-9 digit cards. Place them face down.
- Take the top 4 cards. Use them all to make two 2-digit numbers.
- Mark and label them on a landmarked number line (see below) in your chosen colour.
- Your partner takes the next two cards and uses them to try to make a number in-between your two numbers on the line.
- If they can do so, they win a point. If not, you win the point.
- Repeat on each line, swapping roles for each game.
- Discuss what strategies you have learned as you played the game.

Player A



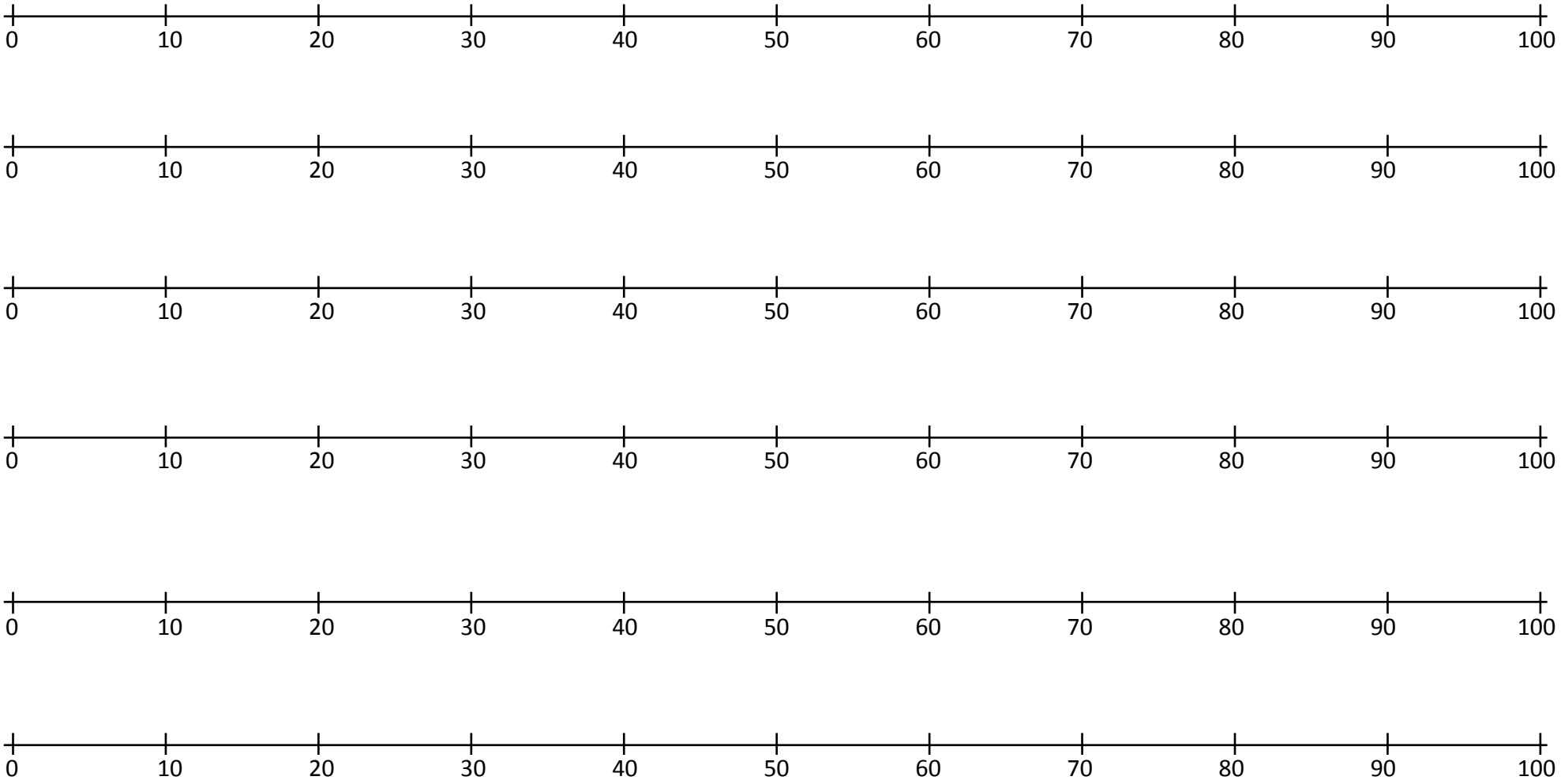
Player B





Player B wins the point.

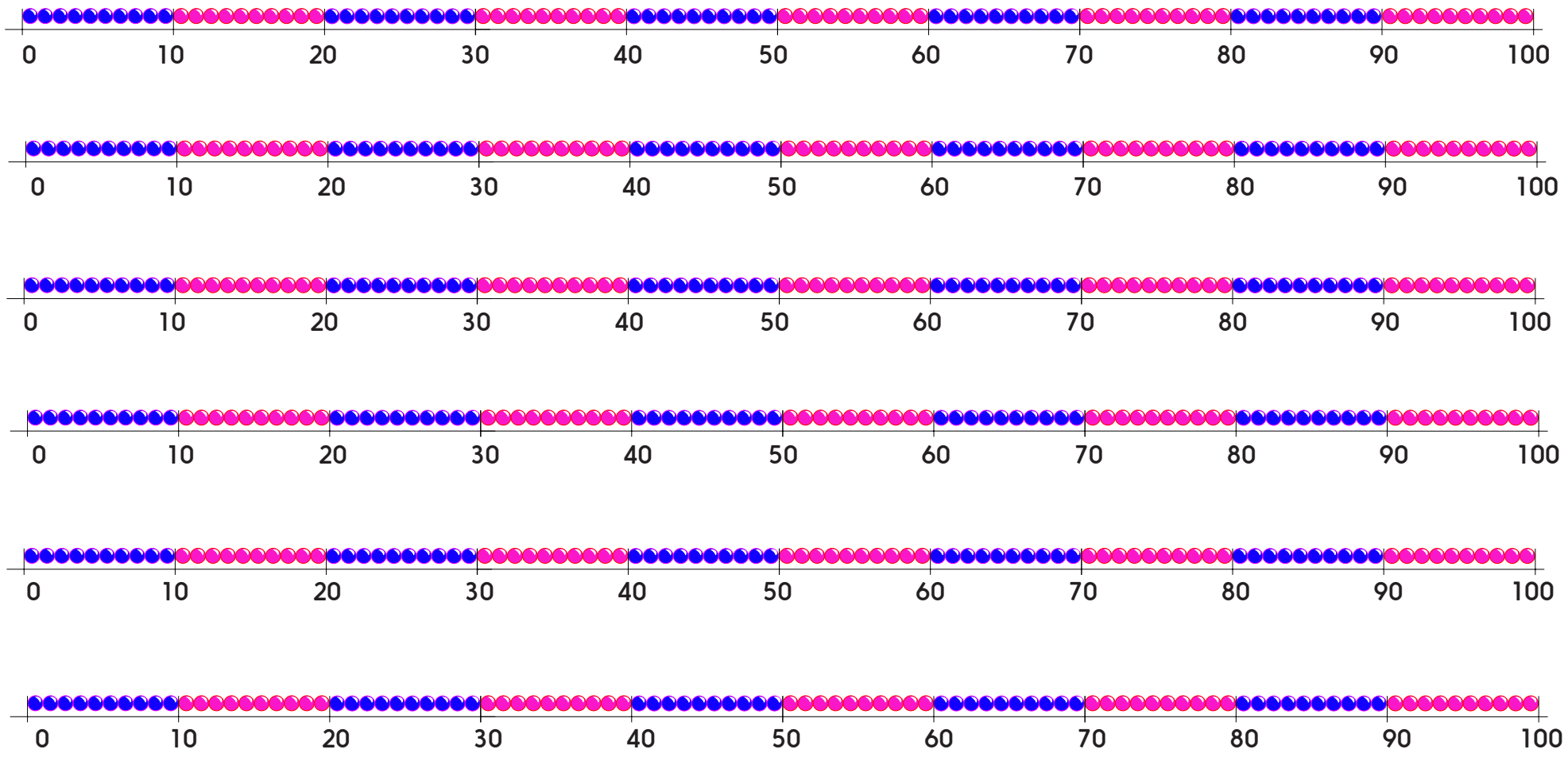
Practical Activity
'In-betweenies'



Practical Activity

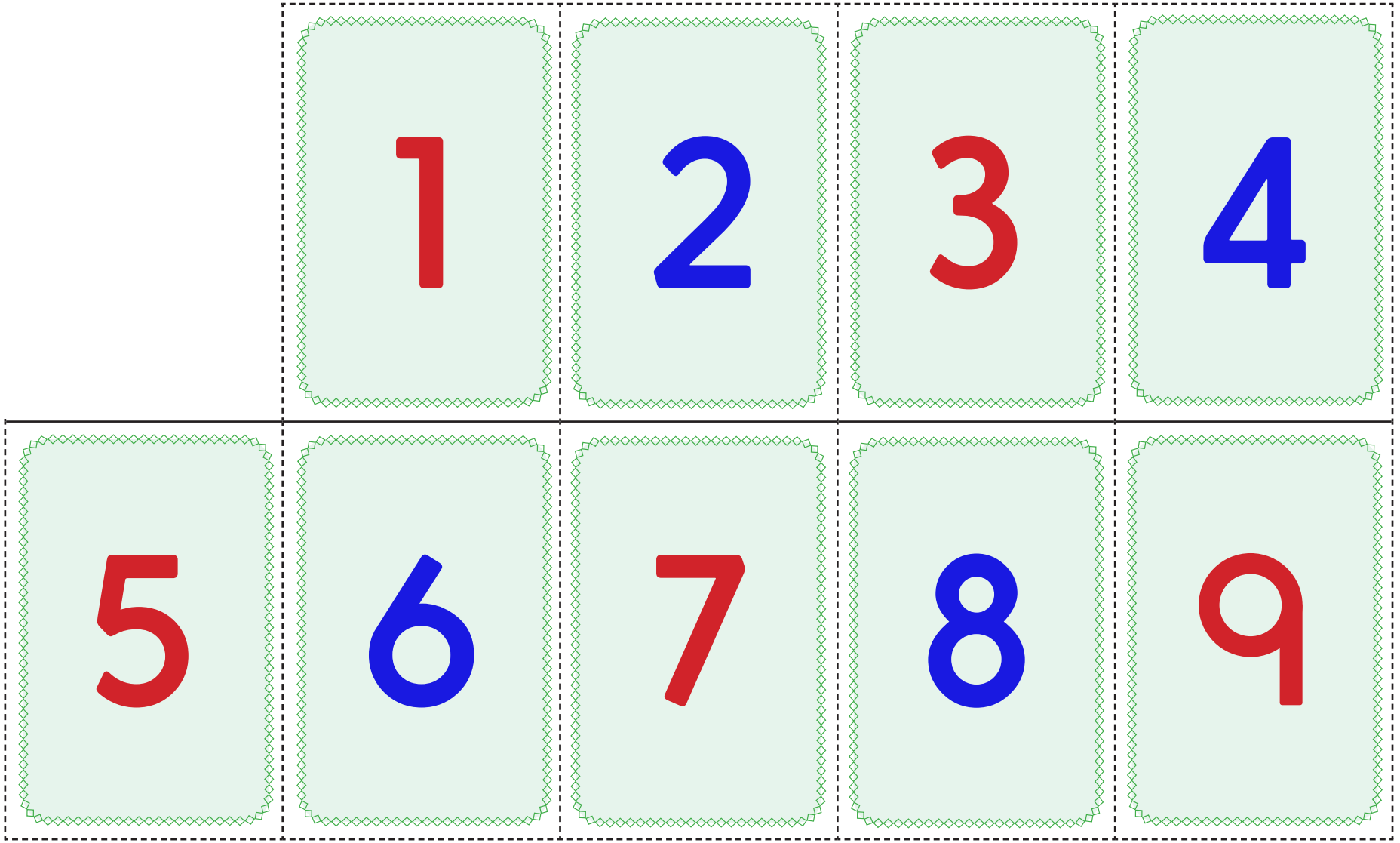
'In-betweenies'

Play the same game but use these beaded lines to help you place the numbers.



Practical Activity

'In-betweenies'



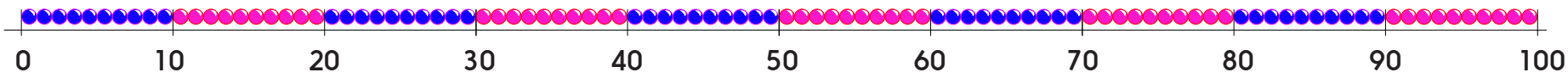
Practice Sheet Mild

Number lines

Write a number in each circle which belongs between the numbers on either side.

6	○	17	○	25	○	31	○	43	○	57	○	68	○	71

Mark all your numbers on this line.



Challenge

1. 2 6 Use the pair of digit cards to make two numbers: _____ _____

Write a number between: _____

2. 3 4 Use the pair of digit cards to make two numbers: _____ _____

Write a number between: _____

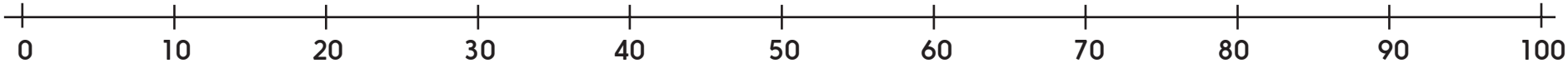
Practice Sheet Hot

Number lines

Write a number in each circle which belongs between the numbers on either side.

6	○	12	○	25	○	31	○	43	○	57	○	68	○	71	○	85	○	94

Mark all your numbers on this line.



Challenge

1. 6 2 4

Write ALL the 2-digit numbers that you can make using these cards.

_____

Write them in order, smallest first.

_____

Practice Sheet Answers

Practice Sheet (Mild)

Accept numbers from the ranges given in brackets.
6 (7 -16) 17 (18 - 24) 25 (26 - 30) 31 (32 - 42) 43 (44 - 56) 57 (58 - 67) 68 (69, 70) 71

Children should be marking their numbers on the beaded line between the beads and after the given number of beads.

Challenge

1. 26 62
Answers between 27 and 61

2. 34 43
Answers between 35 and 42

Practice Sheet (Hot)

Accept numbers from the ranges given in brackets.
6 (7 -11) 12 (13 - 24) 25 (26 - 30) 31 (32 - 42) 43 (44 - 56) 57 (58 - 67) 68 (69, 70) 71 (72 - 84) 85 (86 - 93) 94

Children should be marking their numbers on the landmarked lines as accurately as they can.

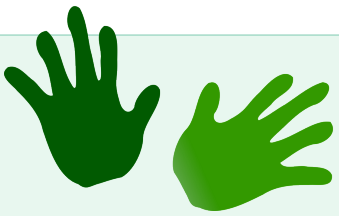
Challenge

Numbers possible with digits 6, 2 and 4 in order from smallest to biggest:
24 26 42 46 62 64

A Bit Stuck?
Tag, you're it!

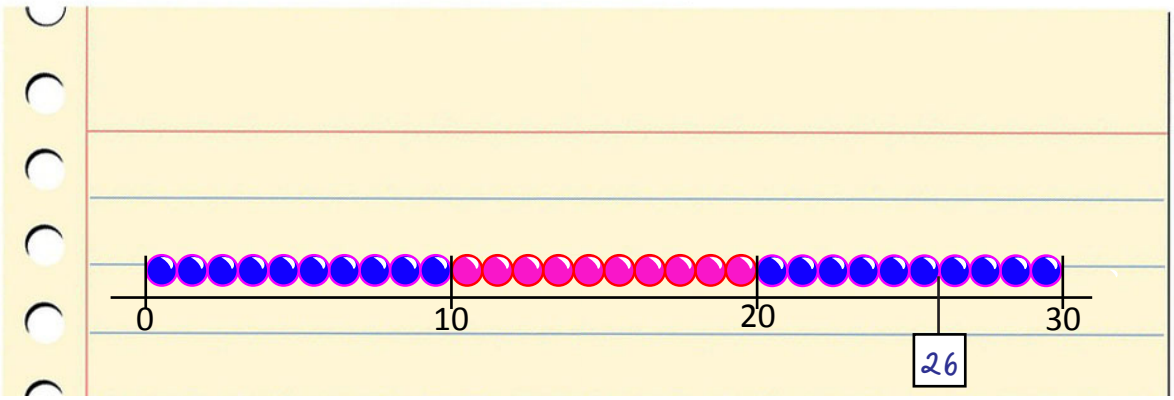
Work in pairs

Things you will need:
- A set of 10s and 1s place value cards
- A 0 to 100 beaded line
- A pencil



What to do:

- Shuffle the 10s cards. Place on the table face down.
- Shuffle the 1s cards. Place face down.
- Take a card from each pile. Put the two cards together to make a 2-digit number.
- Draw a tag to show this number on your beaded line.
- Repeat. How many tags can you draw? You score 10 points for each correct tag!



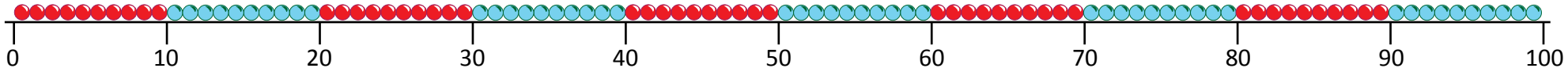
S-t-r-e-t-c-h:

Use the sheet with the beaded line and the landmarked line (the line where the beads have fallen off). Draw tags to show 25, 42 and 59 on the beaded line. Fold the paper so that the beaded line is hidden. Now draw tags to show 25, 42 and 59 on the landmarked line. Can you imagine where the beads should be?
Open up your paper so that you can check against the beaded line.

Learning outcomes:
- I can draw tags to show 2-digit numbers on a 0 to 100 beaded line.
- I am beginning to draw tags to show 2-digit numbers on a 0 to 100 landmarked line.

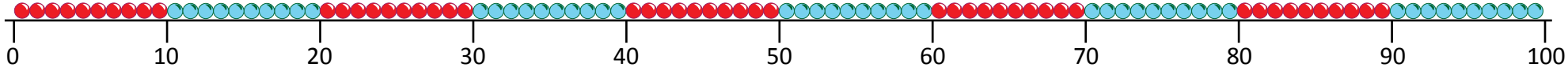
A Bit Stuck?

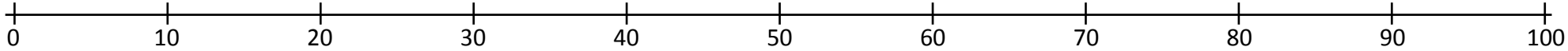
Tag, you're it!



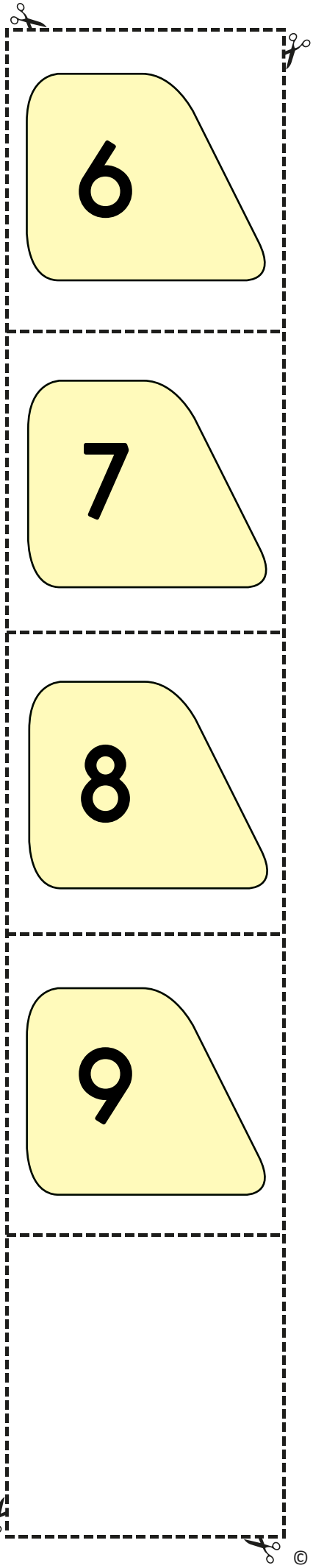
A Bit Stuck?

Tag, you're it!





10	60	1
20	70	2
30	80	3
40	90	4
50		5



Check your understanding

Questions

Draw a line. Mark the ends 0 and 100. Draw marks for 59, 71, 19 and 91.

Write numbers to make these sentences true.

□ < 35

73 < □

13 < □ < 17

How many numbers are less than 40 and more than 31?

Fold here to hide answers:

Check your understanding

Answers

Draw a line. Mark the ends 0 and 100. Draw marks for 59, 71, 19 and 91.

Check order (19, 59, 71 and 91) and accuracy – 91 should be close to 100, 59 just over half way, 19 a small distance from 0.

Write numbers to make these sentences true.

□ < 35 Any number less than 35.

73 < □ Any number greater than 73.

13 < □ < 17 14, 15 or 16.

How many numbers are less than 40 and more than 31?

8 numbers – 32, 33, 34, 35, 36, 37, 38 and 39.

Check your understanding:

Questions

Draw a line. Mark the ends 0 and 100. Draw marks for 59, 71, 19 and 91.

Write numbers to make these sentences true.

☐ < 60

70 < ☐

80 < ☐ < 90

How many numbers are less than 45 and more than 35?

Fold here to hide answers:

Check your understanding:

Answers

Draw a line. Mark the ends 0 and 100. Draw marks for 59, 71, 19 and 91.

Check order (19, 59, 71 and 91) and accuracy: 91 should be close to 100, 59 just over half way, 19 a small distance from 0.

Write numbers to make these sentences true.

☐ < 60 Any number less than 60.

70 < ☐ Any number greater than 70.

80 < ☐ < 90 Any number between 80 and 90.

How many numbers are less than 45 and more than 35?

Nine (36, 37, 38… 44)