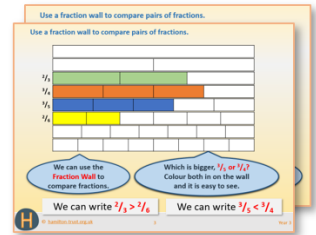


Week 9, Day 2

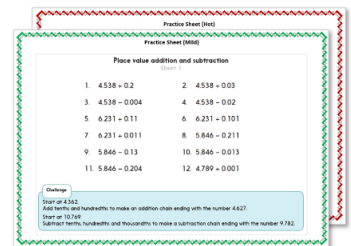
Place 6-digit numbers on landmarked lines.

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

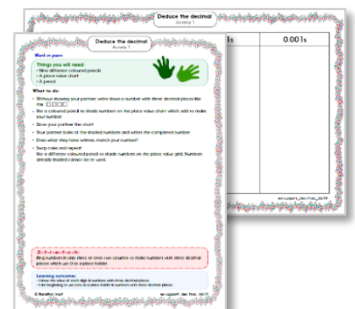
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



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

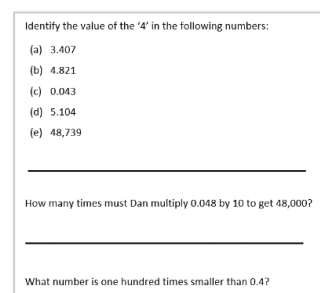


3. Finding it tricky? That's OK... have a go with a grown-up at **A Bit Stuck?**



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

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

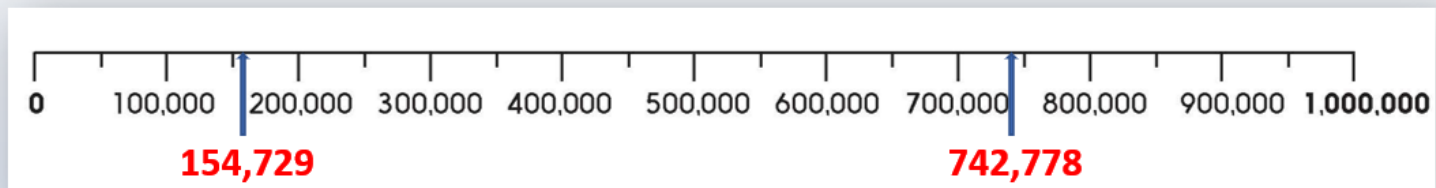


Learning Reminders

Place 6-digit numbers on landmarked lines

1,000,000.
One million has 6 zeros!
It also has one digit for every
letter in the word 'million'.

We can place large numbers on a
0-1,000,00 number line using the
landmarks as a guide.

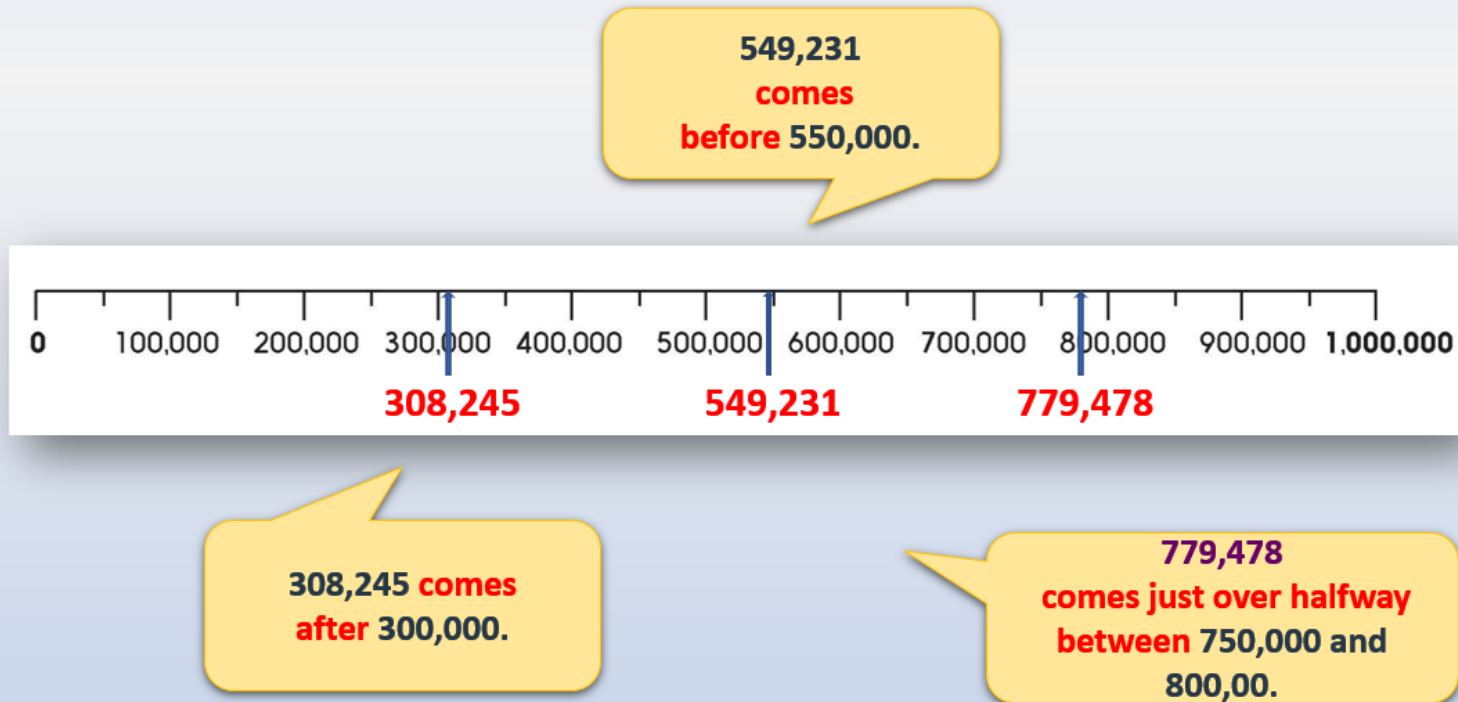


**154,729 comes
after 150,000.**

**742,778 comes
before 750,000.**

Learning Reminders

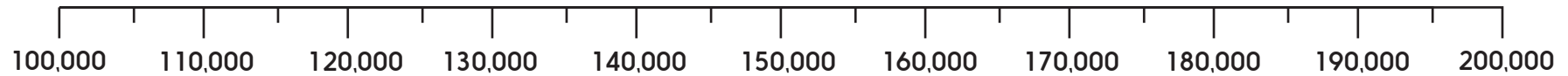
Place 6-digit numbers on landmarked lines



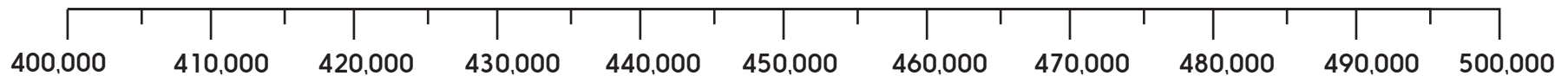
Practice Sheet Mild

Placing numbers

Mark on the following numbers: 125,000, 132,000, 175,000, 199,000

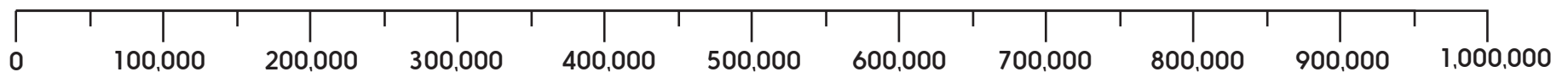


Mark on the following numbers: 415,000, 429,000, 463,000, 472,000



Mark on the following numbers: 350,000, 425,000, 575,000, 730,000.

Then mark on a number between 200,000 and 300,000, one between 500,000 and 600,000, and one between 800,000 and 900,000.



Practice Sheet Hot Placing numbers

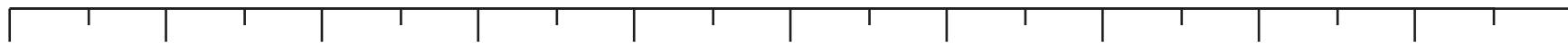
Mark on the following numbers: 350,000, 425,000, 575,000, 730,000



Mark on the following numbers: 249,000, 301,000, 425,000, 894,000



Label this number line, then mark on the following numbers: a) 93,000, b) 342,000, c) 206,000, d) 163,000, e) 482,000

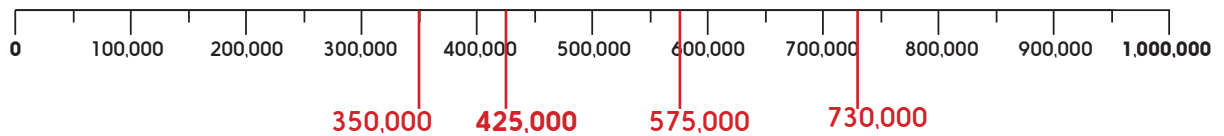
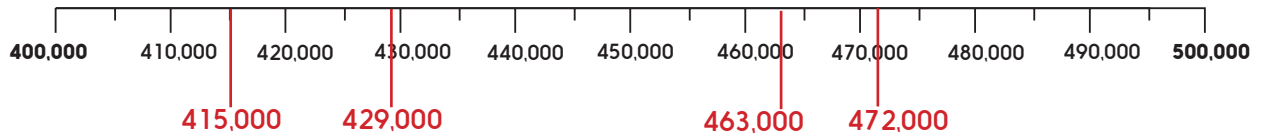
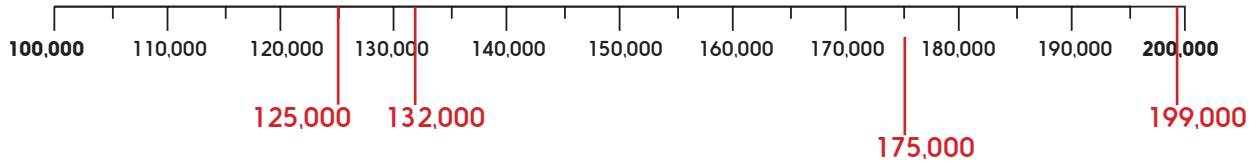


Challenge

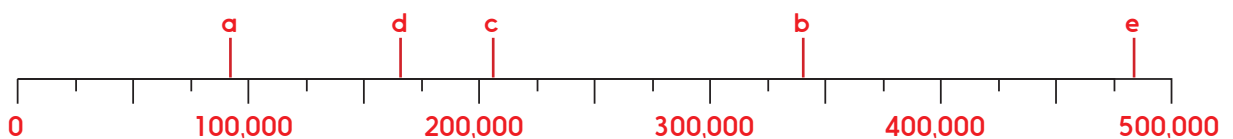
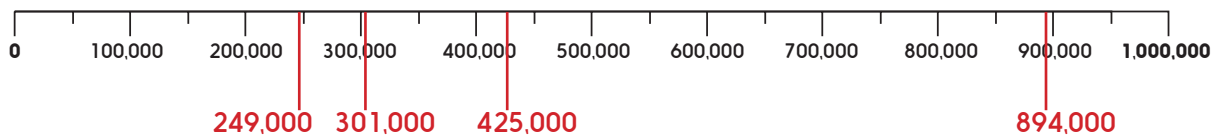
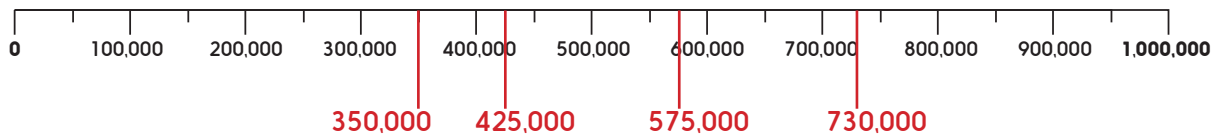
Sketch your own 1,000,000 to 3,000,000 line without any numbers in between.
Choose 5 numbers to mark on it.

Practice Sheets Answers

Placing numbers (mild)



Placing numbers (hot)



A Bit Stuck? Line 'em up!

Work in pairs, but write on your own sheet

What to do:

- Shuffle a pack of 1 to 9 cards. Turn them over one at a time. Use them to fill in the missing digits in these 4-digit numbers. Mark them on the line.

2 □ □ □ 2 □ □ □ 2 □ □ □

2000

3000

- Shuffle the cards again and use them to fill in the missing digits in these 4-digit numbers. Mark these on the line.

5 □ □ □ 5 □ □ □ 5 □ □ □

5000

6000

- Shuffle the cards again and use them to fill in the missing digits in these 4-digit numbers. Mark these on the line.

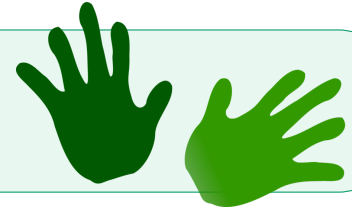
9 □ □ □ 9 □ □ □ 9 □ □ □

9000

10,000

Things you will need:

- A pencil
- A pack of 1 to 9 digit cards



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

Shuffle the digit cards. Take four to make a 4-digit number. Draw a line from the multiple of 1000 before the number to the multiple of 1000 after the number. Mark the number on the line. Repeat.

Learning outcomes:

- I can place 4-digit numbers on a line marked in 100s.
- I am beginning to place 4-digit numbers on a line marked in 1000s.

A Bit Stuck?
Line 'em up!

1

2

3

4

5

6

7

8

9

Investigation

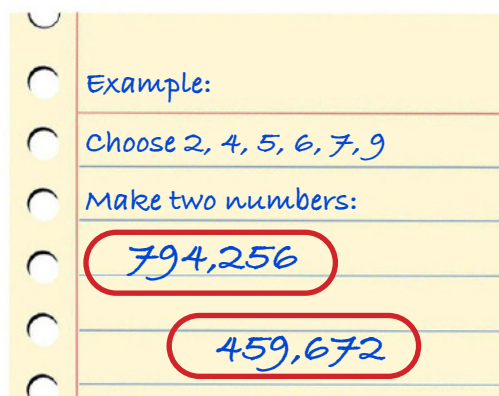
In-between if you can!

You will need:

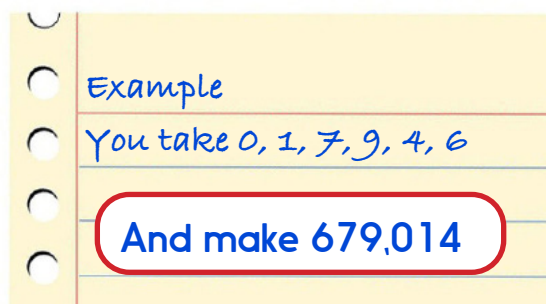
- 0 to 1,000,000 landmarked line
- 0 to 9 cards

What to do:

- Shuffle the pack of 0–9 cards. Take six random cards and use the same 6 digits in two *different* ways to make a pair of 6-digit numbers. Mark them on the 0 to 1,000,000 line using a pencil.



- Shuffle the cards and take six more cards at random. Can you use them to make a number **between** the two already on the line?



- Start with 10 points. If successful in placing the new number between the first two, you score a point; if not you lose a point!
- Erase the numbers and repeat...
- How quickly can you reach 20 points?
Can you describe a strategy to help win the points?

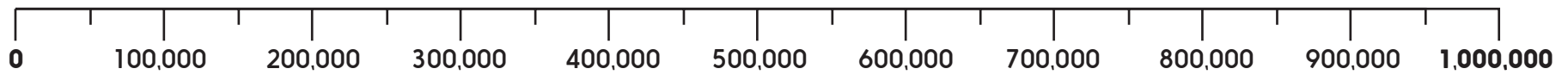
Challenge

1. Play the game in reverse...
2. Try to place your first two numbers so that is impossible to place a third number between them.

What are good strategies this time?

Investigation

In-between if you can!



Investigation
In-between if you can!

1

2

3

4

5

6

7

8

9

0

Check your understanding Questions

True or false?

- 10 more than 99,999 is 100,090
 - 100 less than 202,020 is 201,920
 - 199,009 add 1000 is 201,009
 - Add 10,000 to 105,432 five times to get 150,432
-

Which of these numbers come before 350,000 on a number line and which after?

372,500 349,944 309,999 355,555

Fold here to hide answers

Check your understanding Answers

True or false?

- 10 more than 99,999 is 100,090 **False, it is 100,009.**
 - 100 less than 202,020 is 201,920 **True.**
 - 199,009 add 1000 is 201,009 **False, it is 200,009.**
 - Add 10,000 to 105,432 five times to get 150,432 **False, it is 155,432.**
-

Which of these numbers come before 350,000 on a number line and which after?

- 372,500 **After**
- 349,944 **Before**
- 309,999 **Before**
- 355,555 **After**