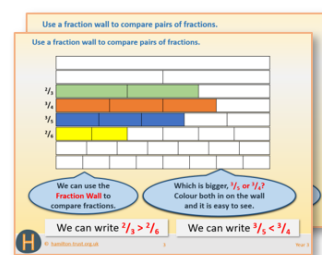


Year 5: Week 4, Day 4

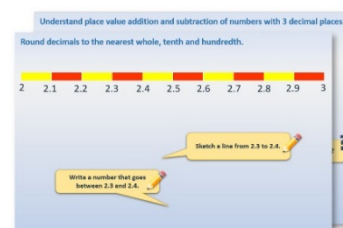
Temperature (1)

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

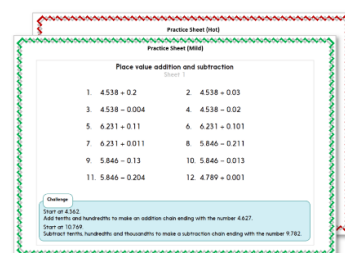
1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.



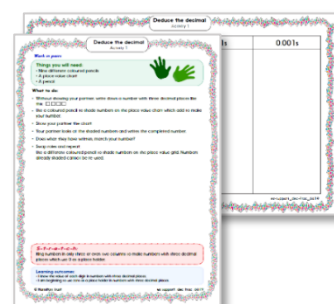
OR start by carefully reading through the **Learning Reminders**.



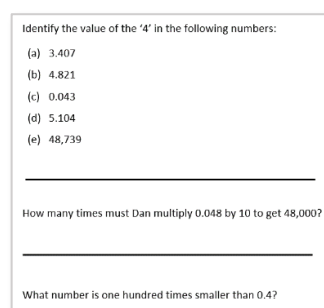
2. Tackle the questions on the **Practice Sheet**.
There might be a choice of either **Mild** (easier) or **Hot** (harder)!
Check the answers.



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

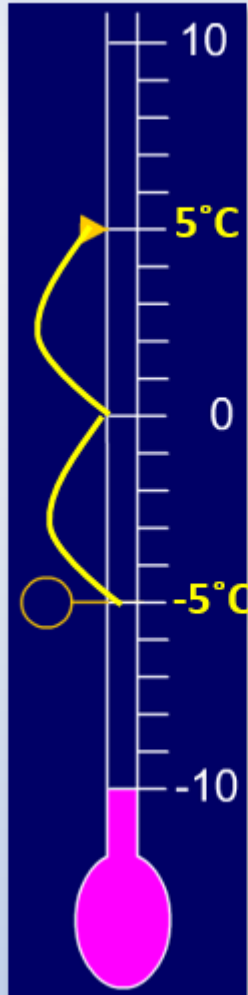


4. Have I mastered the topic? A few questions to **Check your understanding**.
Fold the page to hide the answers!



Learning Reminders

Use negative numbers in context of temperature; calculate rises and falls in temperature.



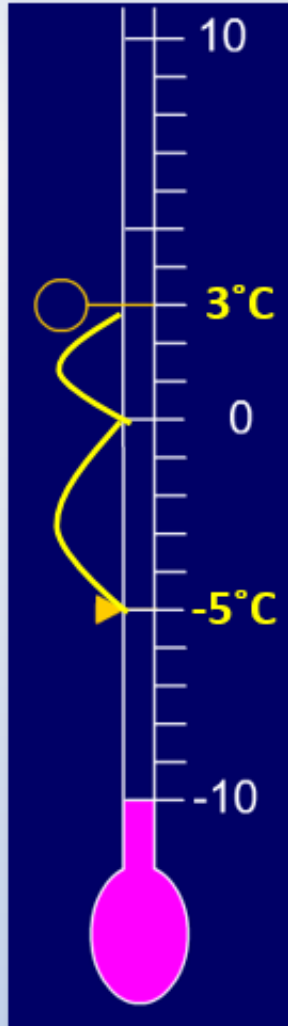
During one day it was 5 °C.
At night the temperature fell to minus 5 °C.
How many degrees has the temperature fallen? ?

How many degrees had it fallen
when it got to zero?
And then? ?

The temperature **fell** 5°C to reach zero,
then **fell** another 5°C to reach -5°C.
It's fallen 10°C in total.

Learning Reminders

Use negative numbers in context of temperature; calculate rises and falls in temperature.



The next day the temperature rose, but it was colder than the previous day. How much has the temperature gone up by?

?

It's risen 8°C in total.

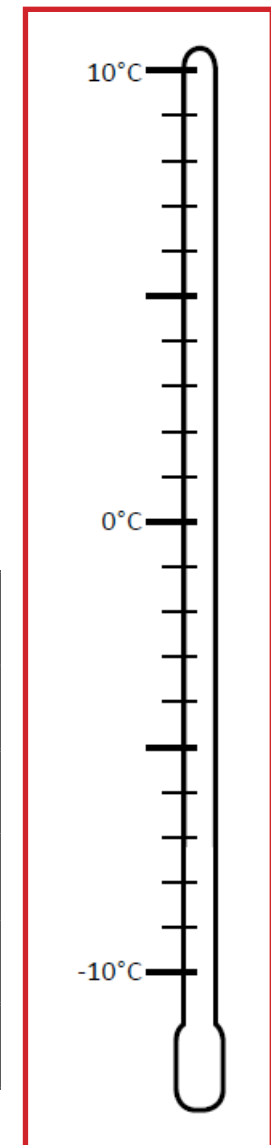
Practice Sheet Mild Temperature

Mark the following temperatures on this thermometer:

-1°C, -5°C, -9°C, -7°C, -3°C

Use the thermometer to help you to work out the temperature drop for each day.

Day	Maximum day temperature	Minimum night temperature	Temperature drop
Monday	5°C	-3°C	
Tuesday	7°C	-2°C	
Wednesday	4°C	-3°C	
Thursday	2°C	-6°C	
Friday	1°C	-4°C	



Practice Sheet Hot Temperature

Day	Maximum day temperature	Minimum night temperature
Monday	5°C	-3°C
Tuesday	7°C	-2°C
Wednesday	4°C	-3°C
Thursday	2°C	-6°C
Friday	1°C	-4°C

1. Which was the coldest night?
2. Which was the mildest night?
3. What was the fall in temperature on Monday?
4. What was the temperature fall on Friday?
5. What was the rise in temperature from the lowest temperature on Tuesday night to the highest temperature on Wednesday?
6. What was the rise in temperature from the lowest temperature on Thursday night to the highest temperature on Friday?
7. What is the difference between the mildest temperature recorded during the week and the coldest?
8. Make up two more questions for your partner to answer. Remember you must have worked out the answers as well!

Practice Sheets Answers

Temperature (mild)

The temperature drops for each day are:

Monday - 8 degrees

Tuesday - 9 degrees

Wednesday - 7 degrees

Thursday - 8 degrees

Friday - 5 degrees

Temperature (hot)

1. Thursday was the coldest night.
2. Tuesday was the mildest night.
3. On Monday, the temperature fell by 8 degrees.
4. On Friday, the temperature fell by 5 degrees.
5. The temperature rose 6 degrees from Tuesday night to its highest on Wednesday.
6. The temperature rose 7 degrees from Thursday night to its highest on Friday.
7. There is a difference of 13 degrees between the mildest and coldest

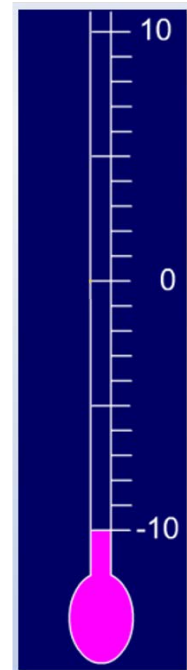
A Bit Stuck?

Temperatures around the world

- Put these thermometer readings in order, from the lowest temperature to the highest temperature.

-10° 3° -3° 4° -6° 7° 0°

- What might the weather might feel like for some of these temperatures?
- It's Summer here now, but where do you think we might have overnight negative temperatures in the world at the moment? Use the internet to find out (e.g. www.bbc.co.uk/weather).
- Make a list of up to ten places with their current temperatures, ordered from coldest to mildest.



Check your understanding

Questions

If the temperature starts at 4 degrees and falls 3 degrees each hour from midnight to 6am, what is the temperature at 6 in the morning?

Today it is minus 3 degrees. What was the temperature yesterday if it was 5 degrees lower than it is today? Tomorrow they say it will be 10 degrees warmer. What will it be then?

Complete the table

	4°	-6°	-1°
Falls 3°	1°		
Rises 4°			

Fold here to hide answers

Check your understanding

Answers

If the temperature starts at 4 degrees and falls 3 degrees each hour from midnight to 6am, what is the temperature at 6 in the morning? **-14 degrees.**
It has fallen a total of 18 degrees and $4 - 18 = -14$. Alternatively, count back in steps of 3 on a number line.

Today it is minus 3 degrees. What was the temperature yesterday if it was 5 degrees lower than it is today? **-8 degrees.**

Tomorrow they say it will be 10 degrees warmer. What will it be then? **7 degrees.**

Children not sure about these should refer to a number line.

Complete the table

	4°	-6°	-1°
Falls 3°	1°	-9°	-4°
Rises 4°	8°	-2°	3°