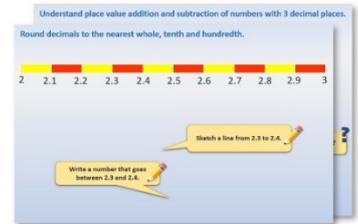


Week 12, Day 5

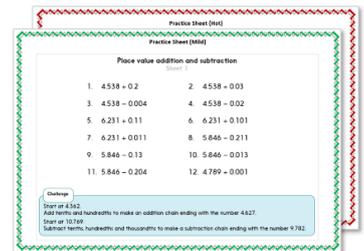
Place negative numbers on a line and order them

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

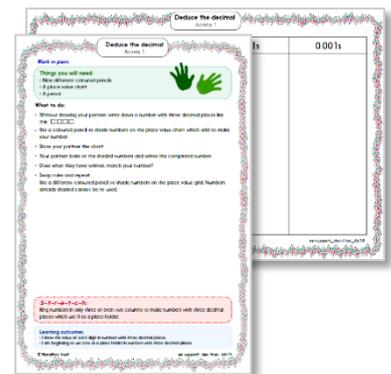
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



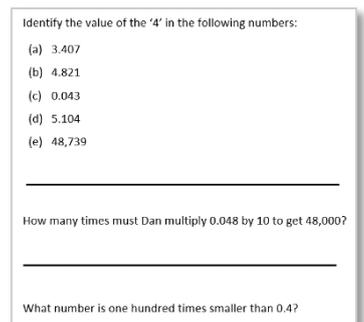
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



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

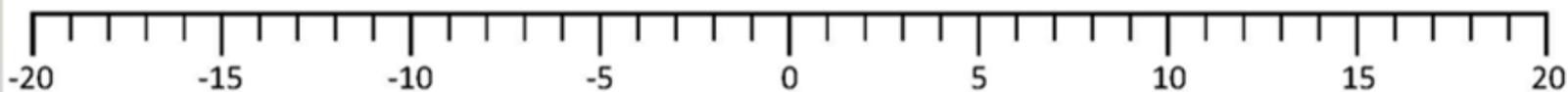


4. Have I mastered the topic? A few questions to **Check your understanding**. Fold the page to hide the answers!



Learning Reminders

Place negative numbers on a line. Order positive and negative numbers.



We can use this number line to practise counting from -20 to 20 and back again.
Try it in 5s.

Now try it in 1s or 2s. You can mark the numbers on the line to help!

Learning Reminders

Place negative numbers on a line. Order positive and negative numbers.

Copy these pairs of numbers.
Which is the larger of each pair?
Put either $<$ or $>$ between each pair to complete the inequality.

If you're not sure, you can always check on the number line.

3	-7
-9	8
6	2
-3	-1
0	-3

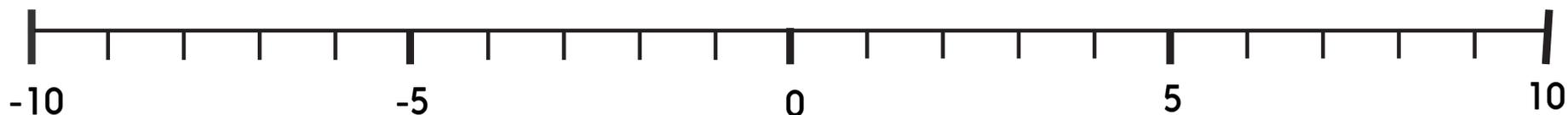
Answers

3	<	0
-1	>	-3
2	<	9
8	>	-6
-7	<	3

Practice Sheet Mild

Positive and negative numbers

1. Fill in all numbers from -10 to 10 on this number line. Use your number line to help with questions 2, 3 and 4.



2. Write the number that goes between the numbers.

-2 0

-10 -8

-1 1

-6 -4

3. Write $<$ or $>$ between each pair of numbers.

-4 4

3 -1

-5 -2

-10 -6

3 -3

-8 2

0 -7

4. Write each group of numbers in order, smallest first.

-2, 2, 0

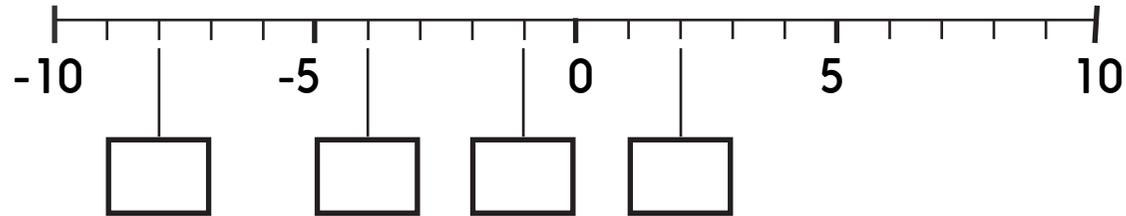
4, -1, 6

-10, 3, -5

Practice Sheet Hot

Positive and negative numbers

1. Write the missing numbers in the boxes.



2. Write the number that goes between the numbers.

-2 0

-10 -8

-1 1

-6 -4

3. Write $<$ or $>$ between each pair of numbers.

-4 4

3 -1

-5 -2

-10 -6

3 -3

-8 2

0 -7

4. Write each group of numbers in order, smallest first.

-2, 2, 0

4, -1, 6

-10, 3, -5

4, -3, -1

-5, -9, -2

3, 0, -6

Challenge

The year this year is _____ .
What year was it 2050 years ago?

Practice Sheets Answers

Positive and negative numbers (hot)

2.

-2 -1 0 -10 -9 -8 -1 0 1 -6 -5 -4

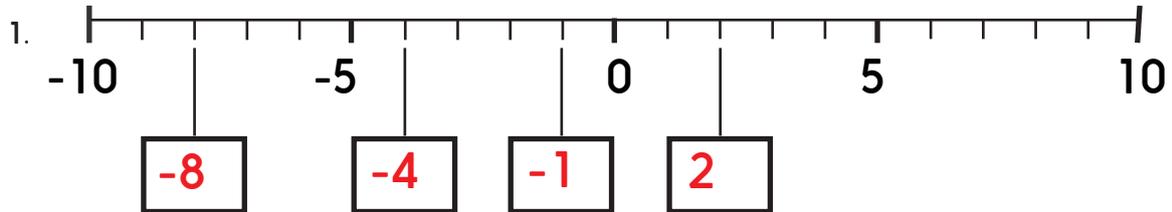
3.

-4 < 4 3 > -1 -5 < -2 -10 < -6 3 > -3 -8 < 2 0 > -7

4. Write each group of numbers in order, smallest first.

-2, 2, 0	-2 0 2
4, -1, 6	-1 4 6
-10, 3, -5	-10 -5 3

Positive and negative numbers (hot)



2.

-2 -1 0 -10 -9 -8 -1 0 1 -6 -5 -4

3.

-4 < 4 3 > -1 -5 < -2 -10 < -6 3 > -3 -8 < 2 0 > -7

4. Write each group of numbers in order, smallest first.

-2, 2, 0	-2 0 2
4, -1, 6	-1 4 6
-10, 3, -5	-10 -5 3
4, -3, -1	-3 -1 4
-5, -9, -2	-9 -5 -2
3, 0, -6	-6 0 3

5. Write three numbers between -10 and -3.

Accept three of the following:

-9, -8, -7, -6, -5 or -4

Challenge

Do children give the year in terms of a negative number, e.g. -31' for 2019?
Of course, we count back past the 'year zero' in positive numbers 'BCE' (Before Common Era), so 2050 years before 2019 was 31 BCE.

A Bit Stuck?

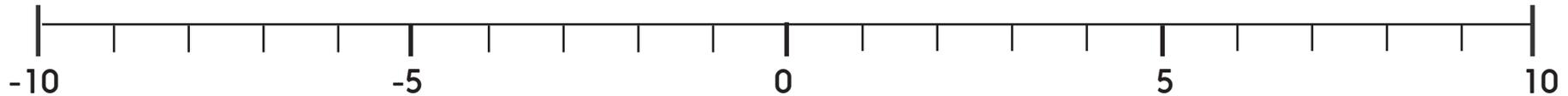
Ordering temperatures

You will need:

- -10 to 10 cards

What to do:

- Carefully cut out the -10 to 10 cards. Shuffle the cards, then order them in a line, smallest to largest. Repeat this activity several times.
- When you are confident with ordering, write the numbers on the number line below:



- Now shuffle the cards and choose one. What number comes before and what number after? Record like this: I chose -3. -4, -3, -2. Check whether you are correct by using your number line. Repeat for at least five different cards.
- Now choose two cards. Write $<$ or $>$ between the numbers to complete inequalities, e.g. choose 3 and -7 record: $3 > -7$. Repeat several times using the number line to check.

A Bit Stuck?
Ordering temperatures

-10°C

-9°C

-8°C

-7°C

-6°C

-5°C

-4°C

-3°C

-2°C

-1°C

0°C

1°C

A Bit Stuck?
Ordering temperatures

2°C

3°C

4°C

5°C

6°C

7°C

8°C

9°C

10°C

Check your understanding

Questions

Put these temperatures in order, starting with the lowest:

19°C

-9°C

-18°C

0°C

21°C

What temperature is 10 degrees less than 4°C?

Alfie says '20 degrees higher than -5°C is 25°C'. Do you agree with him?

Fold here to hide answers

Check your understanding

Answers

Put these temperatures in order, starting with the lowest:

19°C

-9°C

-18°C

0°C

21°C

-18°C, -9°C, 0°C, 19°C, 21°C. Don't ignore the negative sign; some children may reverse the first two since 9 is smaller than 18.

What temperature is 10 degrees less than 4°C?

-6°C (check on a number line using 0 as a 'bridge').

Alfie says '20 degrees higher than -5°C is 25°C'. Do you agree with him?

No, it is 15°C. Again check on a number line.