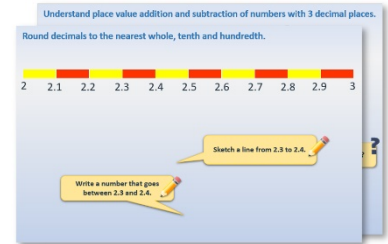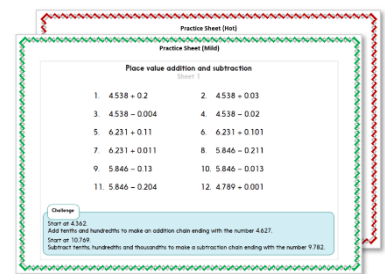# Year 3: Week 5, Day 5
Pictograms

Each day covers one maths topic. It should take you about 1 hour or just a little more.
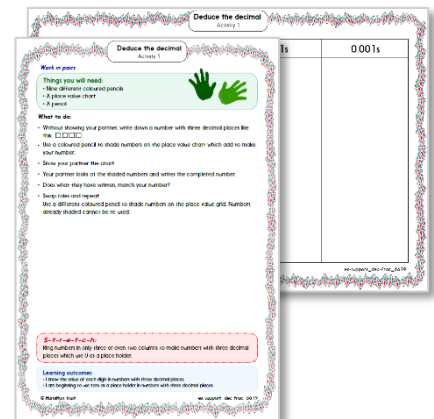
1. Start by reading through the **Learning Reminders**.
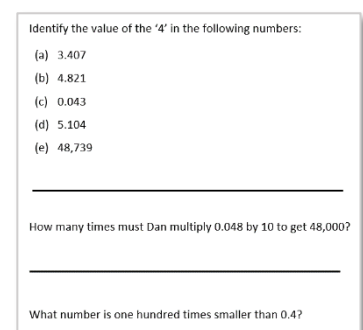   They come from our *PowerPoint* slides.

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

Collect and represent data in pictograms, 1 symbol represents 2 units.

Do you think more children have birthdays in the winter, spring, summer or autumn? How could we find out?

Here are the results for the 60 children in our class and Y4.

Let's display that information as a **pictogram**...

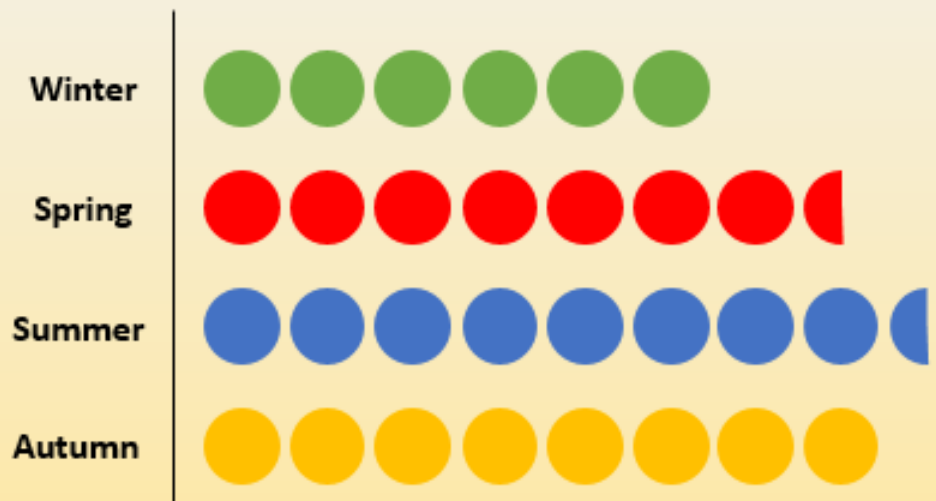| Season	Number of birthdays
Winter (Dec, Jan, Feb)	12
Spring (March, Apr, May)	15
Summer (June, July, Aug)	17
Autumn (Sept, Oct, Nov)	16

Learning Reminders

Collect and represent data in pictograms, 1 symbol represents 2 units.

Season	Number of birthdays
Winter	12
Spring	15
Summer	17
Autumn	16

Let's use 1 circle to represent 2 birthdays.

How many circles for each season?

Winter 🟢🟢🟢🟢🟢🟢

Spring 🔴🔴🔴🔴🔴🔴🔴◖

Summer 🔵🔵🔵🔵🔵🔵🔵🔵◖

Autumn 🟡🟡🟡🟡🟡🟡🟡🟡

Practice Sheet Mild
Zoo pictogram

This table shows the number of animals at the zoo.
Use the information in the table to complete the pictogram.

Animal	Number
Elephants	10
Tigers	13
Hippos	5
Giraffes	7

Animal

Elephants

Tigers

Hippos 🐾🐾🖐

Giraffes

🐾 (one footprint) = 2 animals

Challenge

Write two facts that you can interpret from the pictogram.

Fact 1: _____

Fact 2: _____

Explore more Hamilton Trust Learning Materials at https://wrht.org.uk/hamilton
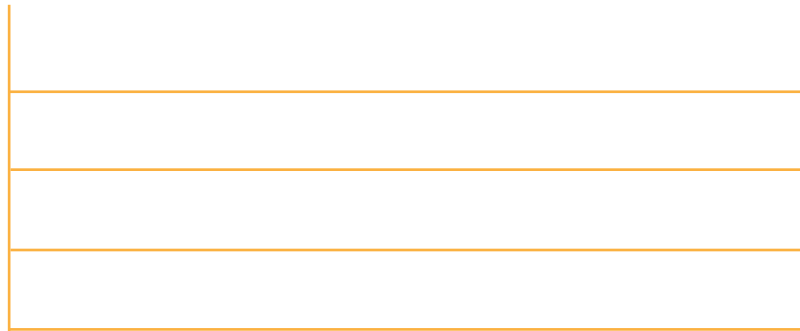
Practice Sheet Hot
Zoo pictogram

This table shows the number of animals at the zoo.
Draw a pictogram to display the data, where one pawprint represents
4 animals.

Animal	Number
Elephants	16
Tigers	10
Hippos	12
Giraffes	18

Animal

Tigers

Scale:

🐾 (one footprint) = [ ] animals

Challenge

Write three facts that you can interpret from the pictogram.

Fact 1: _____

Fact 2: _____

Fact3: _____

Practice Sheets Answers

Zoo pictogram (mild)

Animal

Elephants	🐾 🐾 🐾 🐾 🐾
Tigers	🐾 🐾 🐾 🐾 🐾 🐾 🐾
Hippos	🖐 🖐 🖐
Giraffes	🦵 🦵 🦵 🦵

Challenge

Children could give two of the following facts interpreted from the pictogram:
There are more tigers than elephants, hippos or giraffes.
There are most tigers.
There are fewest hippos.
The total number of hippos and giraffes is one less than the number of tigers.
There are 3 more tigers than elephants.
There are 2 more giraffes than hippos...or other facts of their own.

Zoo pictogram (hot)

Animal

Elephants	🐾 🐾 🐾 🐾
Tigers	🐾 🐾 🐾
Hippos	🖐 🖐 🖐
Giraffes	🦵 🦵 🦵 🦵 🦵

🐾 = ⟨ 4 ⟩ mals

Challenge

Children could give three of the following facts interpreted from the pictogram:
There are more giraffes than tigers, hippos or elephants.
There are fewest tigers.
There are 2 more giraffes than elephants.
There are 6 more elephants than tigers...
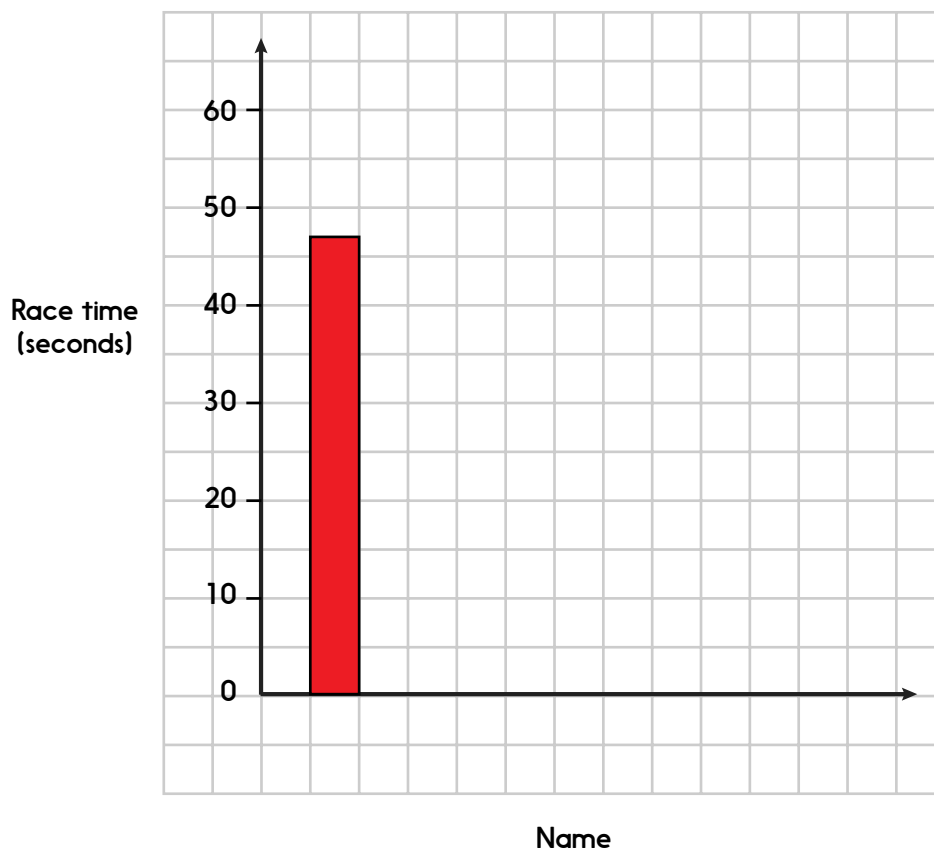or another fact of their own.

A Bit Stuck?
Race times bar chart

The table shows how quickly six people ran the 200m race.
Use the information in the table to complete the bar chart.

Name	Race time (seconds)
Jessica	47
Imran	31
Holly	36
Karolina	28
Zain	29
Mason	54

Time taken to run 200 m

Race time (seconds)

Name

Challenge

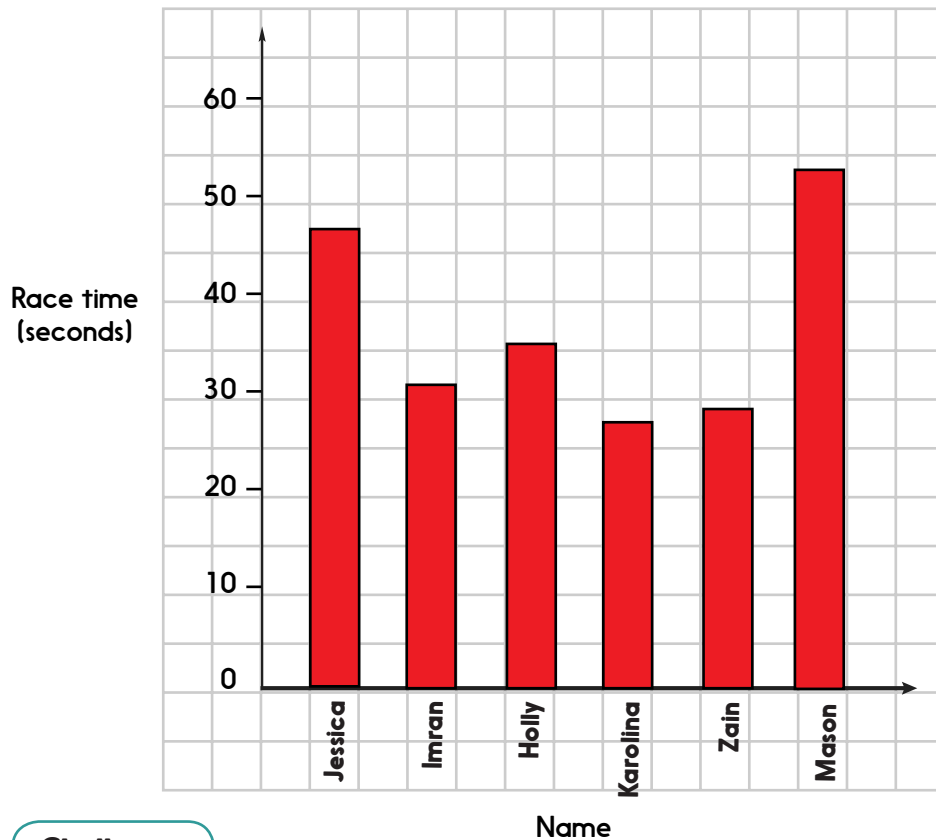Write two facts that you can interpret from the bar chart.

Fact 1: _____

Fact 2: _____

A Bit Stuck? Answers

Race times bar chart

Time taken to run 200 m

Challenge

Children could give two of the following facts interpreted from the bar chart:

Mason was the slowest.

Karolina was the fastest.

Mason was last in the race.

Zain was second in the race.

Imran was third in the race.

Karolina was one second faster than Zain... or other facts of their own.

Check your understanding
Questions

Write the full names of six people who are in your family or who are good friends.

Draw a pictogram of the numbers of vowels you have written.

Fold here to hide answers

Check your understanding
Answers

Write the full names of six people who are in your family or who are good friends.

Draw a pictogram of the numbers of vowels you have written.

Look for evidence of:

A tally chart showing the vowels and how many of each.

Pictogram should be appropriately titled and labelled 'vowels' and 'number' on the axes. If using a graphic image for each letter it should be clear that each letter is taking up the same space. In a well-drawn pictogram, answers to such questions as 'which letter occurred the most/least?' should be clear.