# Pictograms

**1** The pictogram shows the number of ice creams sold each day.

| Day | Number of ice creams sold |
|---|---|
| Monday | 🍦🍦🍦🍦 |
| Tuesday | 🍦🍦 |
| Wednesday | 🍦🍦🍦🍦🍦🍦 |
| Thursday | 🍦🍦 |
| Friday | 🍦🍦🍦🍦 |
| Saturday | 🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦 |
| Sunday | 🍦🍦🍦🍦🍦 |

**Key** 🍦 = 5 ice creams

**a)** On which day were the most ice creams sold?

_Saturday_

**b)** On which two days were 20 ice creams sold?

_Monday & Friday_

**c)** How many ice creams were sold on Thursday? | 10 |

**d)** How many more ice creams were sold on Friday than Thursday? | 10 |

**e)** More ice creams were sold in total on Saturday and Sunday than during the rest of the week.

Do you agree? _No_

Show your workings.

**2** The pictogram shows the colour of cars parked in a car park.

| Colour | Number of cars in car park |
|---|---|
| Red | 🚗🚗🚗🚗🚗 |
| Blue | 🚗🚗🚗🚗🚗 |
| White | 🚗🚗🚗🚗🚗🚗🚗 |
| Yellow | 🚗🚗 |

**Key** 🚗 = 2 cars

**a)** How many parked cars are red? | 10 |

**b)** How many parked cars are blue? | 9 |

**c)** How many cars are parked in total? | 36 |

**d)** Write a question about the pictogram.

_Various answers._

Can a partner answer your question?

**3** Class 3 are asked how many pets they have.

Here are the results.

| Children with 0 pets | 8 |
|---|---|
| Children with 1 pet | 14 |
| Children with 2 pets | 9 |
| Children with 3 or more pets | 2 |

**a)** Eva starts a pictogram to show the results.

Complete the pictogram and the key.

**Key** ▲ = 2 pets

| Pets | |
|---|---|
| 0 pets | ▲ ▲ ▲ ▲ |
| 1 pet | △ △ △ △ △ △ △ |
| 2 pets | △ △ △ △ |
| 3 or more pets | △ |

**b)** How did you know what value to choose for the key?

**4** Amir wants to use a pictogram to represent this data.

| | Minutes spent on the bus |
|---|---|
| Monday | 60 |
| Tuesday | 20 |
| Wednesday | 50 |
| Thursday | 50 |
| Friday | 80 |

**a)** What symbol could Amir use? Draw a key to show what each symbol represents.

Various answers e.g

◯ = 10 minutes

**b)** Draw the pictogram for Amir.

| Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---|---|---|---|
| ◯◯◯◯◯◯ | ◯◯ | ◯◯◯◯◯ | ◯◯◯◯◯ | ◯◯◯◯◯◯◯◯ |

**c)** Compare pictograms with a partner.

What is the same and what is different?

**1** All the children in Class 3 choose their favourite fruit.

The bar chart shows the results.

**Our favourite fruit**

| | | | | |
|---|---|---|---|---|
| apple | banana | grape | strawberry | orange |

(apple = 8, banana = 6, grape = 4, strawberry = 5, orange = 3)
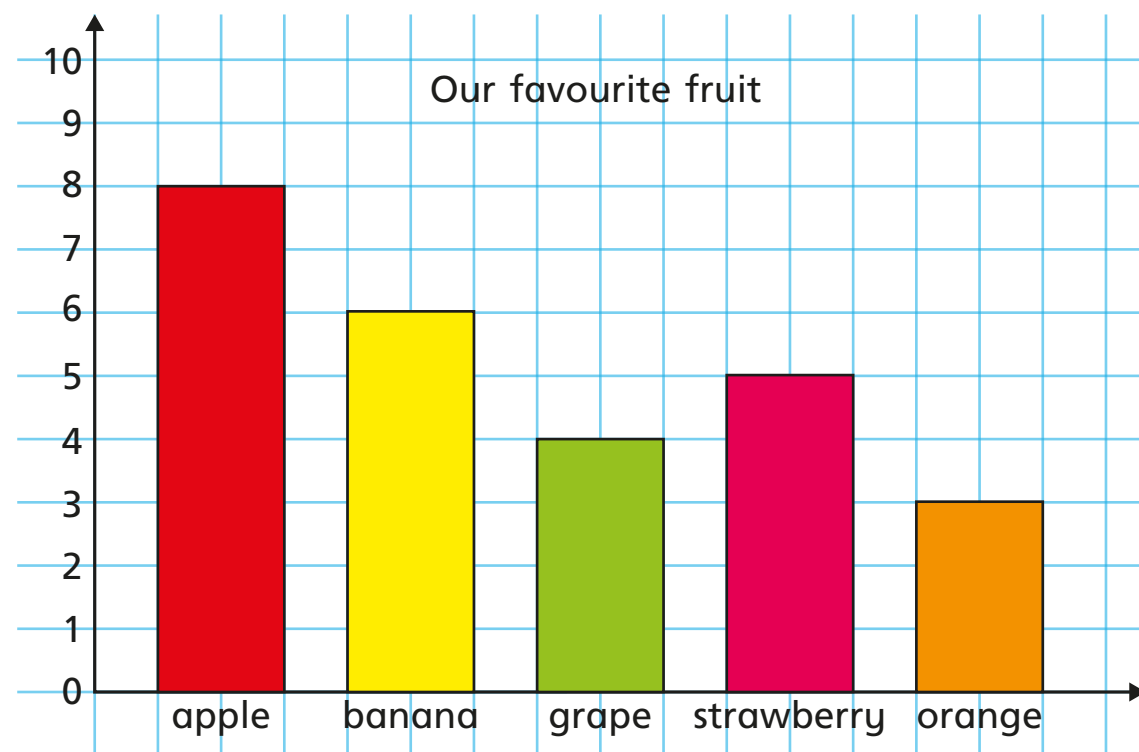
Use the bar chart to answer the questions.

**a)** What is the most popular fruit?  ___apple___

**b)** How can you tell just by looking?

___It's got the tallest bar.___

**c)** What is the least popular fruit?  ___orange___

**d)** How many more children like apples best than like grapes best?  [ 4 ]

**e)** How many children are there in Class 3?  [ 26 ]

**2** Some children are asked how they get to school.

The tally chart shows the results.

| Method | Tally | Total |
|---|---|---|
| Walk | IIII IIII IIII | 14 |
| Bike | III | 3 |
| Car | IIII III | 8 |
| Bus | IIII II | 7 |

**a)** Complete the chart.

**b)** Draw a bar chart to represent the data.

Title: ___Transport to school___

(walk = 14, bike = 3, car = 8, bus = 7)
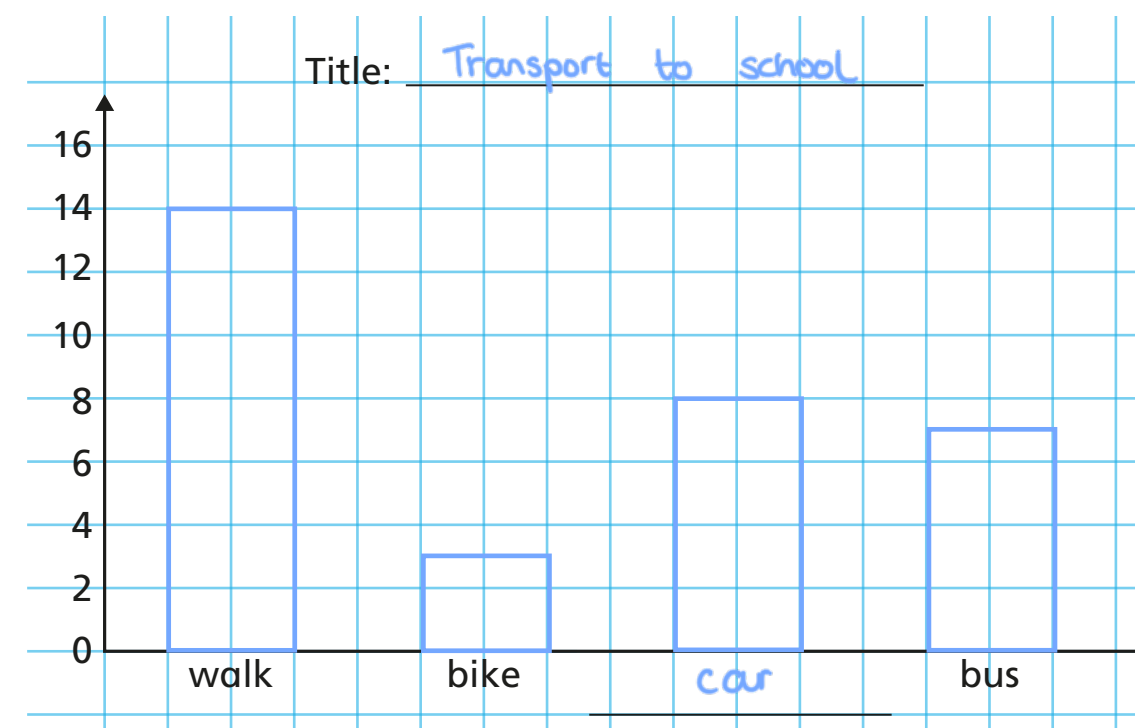
**c)** Which chart do you prefer? Tick your answer.

tally chart [ ]          bar chart [ ]          various answers.

What are your reasons?

**3** The pictogram shows the number of ice creams sold each day.

| Day | Number of ice creams sold | Key 🍦 = 5 ice creams |
|---|---|---|
| Monday | 🍦🍦🍦🍦 | |
| Tuesday | 🍦🍦 | |
| Wednesday | 🍦🍦🍦🍦🍦🍦🍦 | |
| Thursday | 🍦🍦 | |
| Friday | 🍦🍦🍦🍦 | |
| Saturday | 🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦 | |
| Sunday | 🍦🍦🍦🍦🍦🍦 | |

Draw a bar chart to represent this data.

Title: _Ice creams sold_
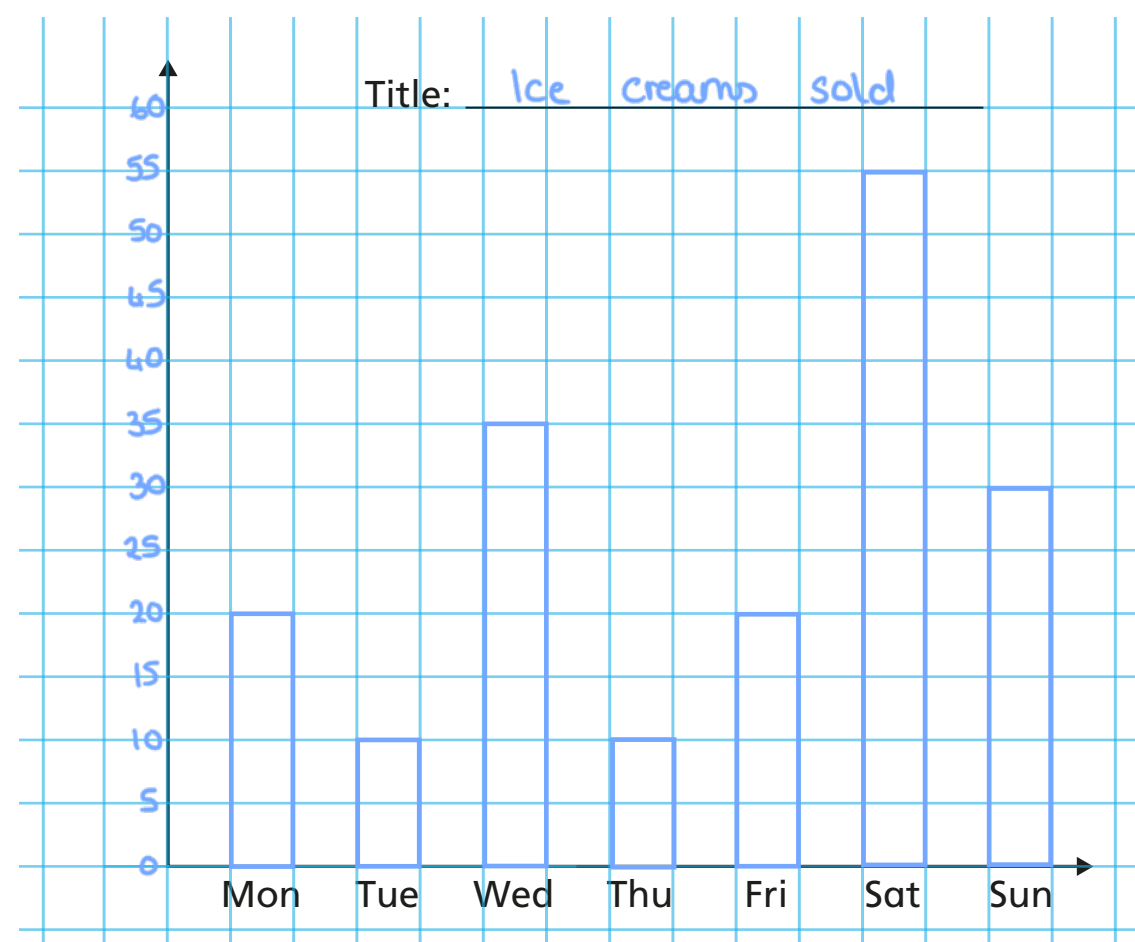
**4** The bar charts show the number of gold medals won by some countries in the Summer and Winter Olympics.

**Summer Olympics 2016**

Number of gold medals

**Winter Olympics 2018**

Number of gold medals
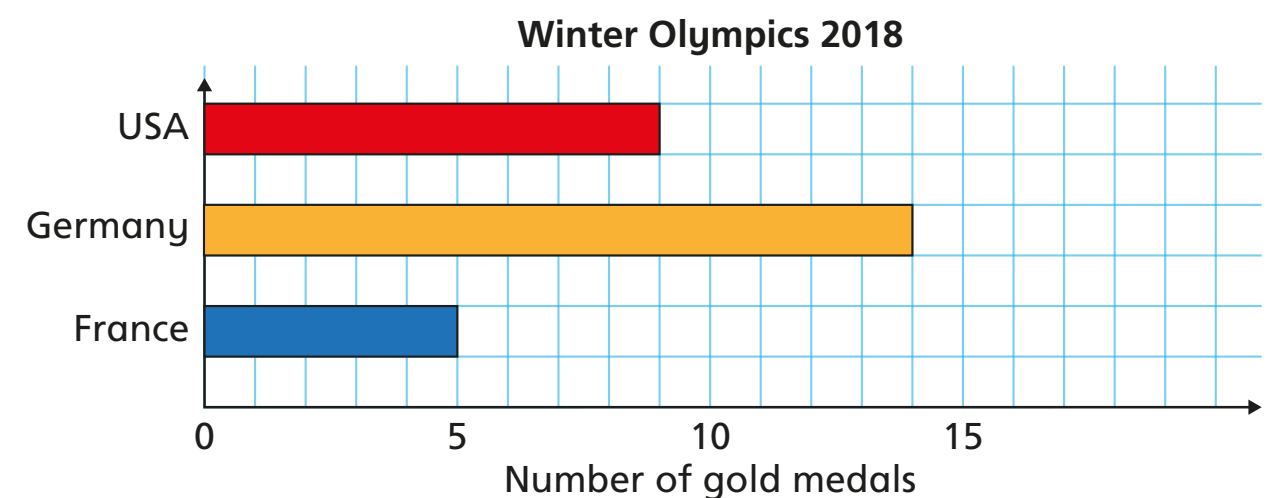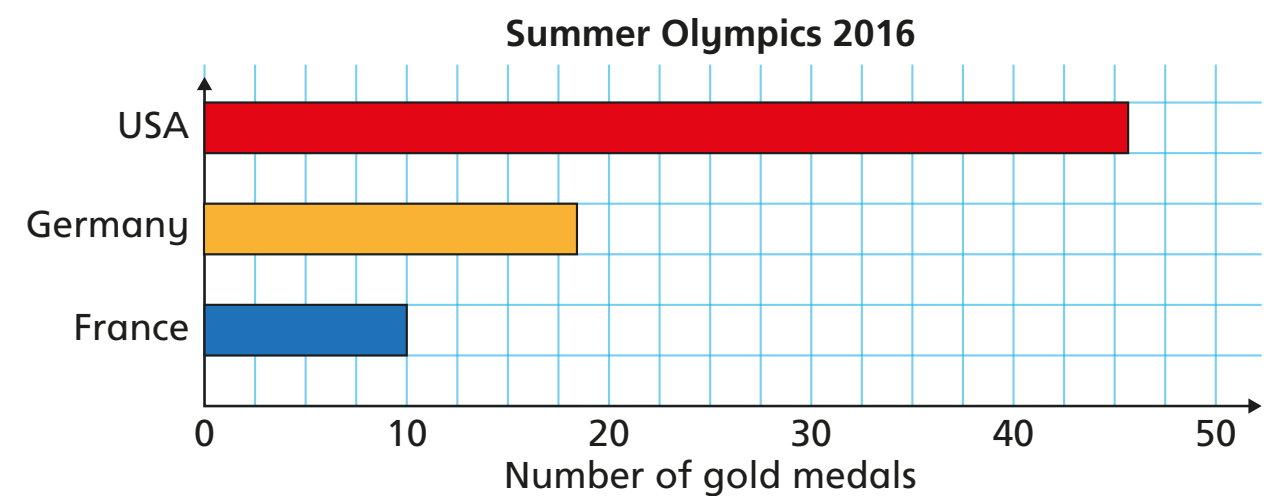
**a)**

> Germany won more medals at the Winter Olympics than the Summer Olympics as the bar is longer.

Is Mo correct? __NO__

How do you know?

**b)** Which country won the most medals in total?

__USA__

# Tables

**1** The table shows school attendance for a Year 3 class.

There are 27 children in the class.

| Day | Girls | Boys |
|---|---|---|
| Monday | 15 | 11 |
| Tuesday | 14 | 12 |
| Wednesday | 14 | 10 |
| Thursday | 15 | 12 |
| Friday | 15 | 11 |

**a)** How many children attended school on Monday?

$\boxed{15}$ + $\boxed{11}$ = $\boxed{26}$ children

**b)** On which day did all the children in the class attend school?  _Thursday_

How do you know?

**c)** How many boys are in the class?  $\boxed{12}$

**d)** How many girls are in the class?  $\boxed{15}$

**e)** Why is there no data for Saturday or Sunday?

_There is no school._

**f)** Who had better attendance – girls or boys?

_Girls_

How did you work it out? Did your partner do the same?

**2** The table shows the number of school days in each month.

| Month | Number of school days |
|---|---|
| January | 18 |
| February | 15 |
| March | 19 |
| April | 16 |
| May | 22 |
| June | 20 |
| July | 7 |
| August | 0 |
| September | 18 |
| October | 17 |
| November | 22 |
| December | 16 |

**a)** Which month has the least school days?  _August_
Why?

_Summer holidays_

**b)** Term 1 is from September to December.

Term 2 is from January to April.

Term 3 is from May to July.

Which term has the most school days?

Term $\boxed{1}$

**3** The table shows the number of packets of crisps sold in a small shop.

| Crisps sold | 6:00 – 9:00 | 9:00 – 12:00 | 12:00 – 15:00 | 15:00 – 18:00 |
|---|---|---|---|---|
| Salted | 6 | 19 | 26 | 25 |
| Salt and vinegar | 0 | 12 | 14 | 7 |
| Paprika | 3 | 9 | 20 | 10 |
| Cheese and onion | 1 | 11 | 14 | 8 |

**a)** Which flavour of crisp is the most popular?

_Salted_

**b)** Which is the least popular flavour?

_Salt & vinegar_

**c)** How many packets of crisps were sold between 6:00 am and 9:00 am?

10

**d)** Between what times were the most salt and vinegar crisps sold?

_12:00 – 15:00_

**4** The table shows the number of newspapers and magazines sold by a shop from Monday to Friday.

| Day | Number of newspapers | Number of magazines |
|---|---|---|
| Monday | 126 | 103 |
| Tuesday | 148 | 113 |
| Wednesday | | 87 |
| Thursday | 150 | 223 |
| Friday | 103 | 186 |

**a)** How many newspapers and magazines were sold in total on Tuesday?

261

**b)** How many more magazines were sold on Thursday than on Wednesday?

136

**c)** There were 650 newspapers sold in total.
How many newspapers were sold on Wednesday?

123

**d)** On which day do you think new magazines come out?
Why?

1)  a) 8

    b) 8 fewer children chose blueberry than cherry and apple put together.

    c) The most popular filling would still be blueberry.

    d) Children may suggest adding a title or adding the key.

    e) Answers will vary; accept any sensible questions written.

    a) False – the scale is in twos so there are four children with spring birthdays.
    b) No – the bar chart tells us how many birthdays there are in the summer. Although July is a summer month, there are other summer months as well. Therefore, the bar chart doesn't tell us how many birthdays there are in July.
    c) 2 children
    d) 28 children

Children demonstrate the correct drawing of a bar chart, including separate bars, and they choose an appropriate scale.

    a) 95

    b) Ann and Ben

    c) 71

    d) Hardeep

    e) Disagree. On Mondays and Tuesdays, Ann went 55 times. On Thursdays and Fridays, Ann went 60 times. This means she attended more times on Thursdays and Fridays.

    f) Hardeep is correct. On Tuesday, 98 children attended. On Thursday, 92 children attend so Tuesday is the busiest day at after school club.

    g) Ben is correct because he can see that he has attended the after club more than any other child on every day of the week. Therefore, he doesn't need to add the numbers together.