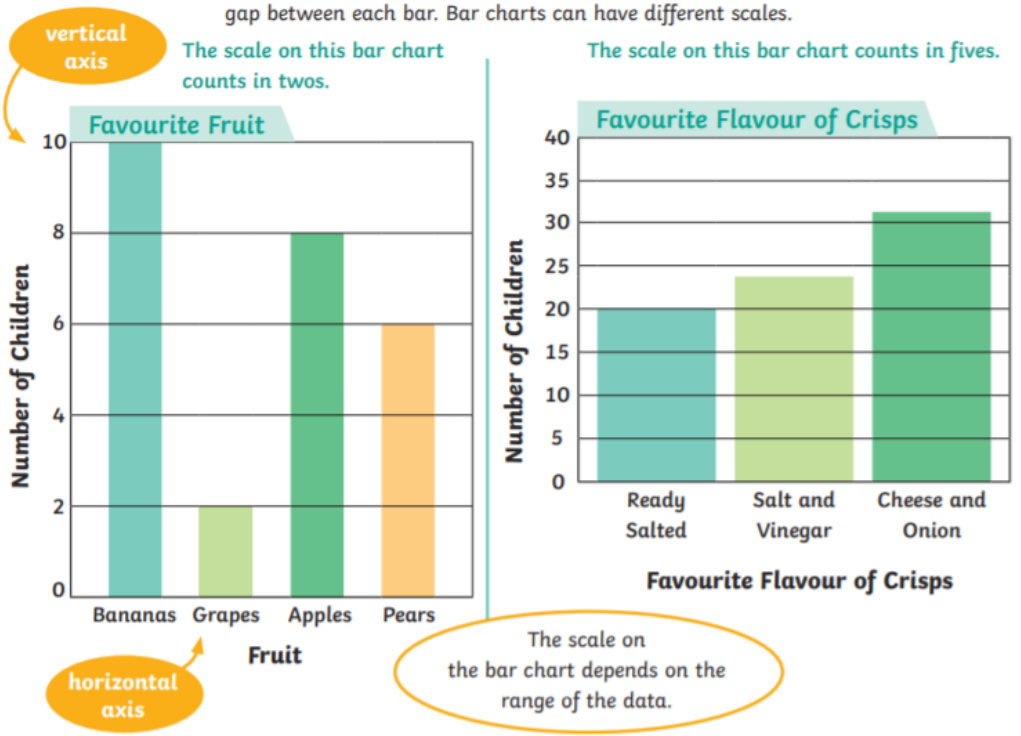
**Learning Objectives**

- To measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
- To be able to measure the perimeter of simple 2-D shapes
- To add and subtract amounts of money to give change, using both £ and p in practical contexts
- To be able to tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks
- To estimate and read time with increasing accuracy to the nearest minute;
- To record and compare time in terms of seconds, minutes and hours
- To use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight
- To know the number of seconds in a minute and the number of days in each month, year and leap year
- To compare durations of events [for example to calculate the time taken by particular events or tasks].
- To interpret and present data using bar charts, pictograms and tables
- To solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables

## Bar Charts

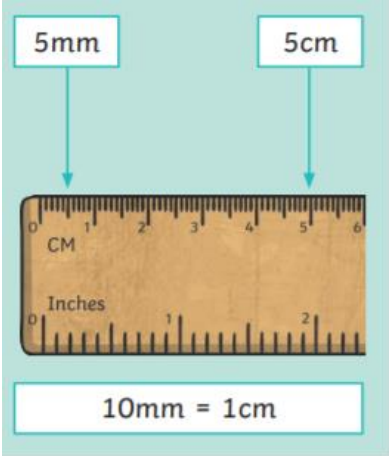
Bars are used to show the data in each category. There must be a gap between each bar. Bar charts can have different scales.




**1p** one penny coin
**2p** two pence coin
**5p** five pence coin
**10p** ten pence coin
**20p** twenty pence coin
**50p** fifty pence coin
**£1** one pound coin
**£2** two pound coin

120 pence
100 pence is £1
120 pence is £1 and 20 pence.

| Key Vocabulary |
|---|
| 12-hour time |
| 24-hour time |
| Roman numerals |
| Analogue |
| Digital |
| Hours |
| Minutes |
| Seconds |
| O'clock |
| Half past |
| Quarter past |
| Quarter to |
| Midday |
| Midnight |
| Noon |
| Metre (m) |
| Centimetre (cm) |
| Millimetre (mm) |
| Height |
| Length |
| Width |
| Perimeter |
| Further/furthest |
| Higher/highest |
| Longer/longest |
| Shorter-shortest |
| Taller/tallest |

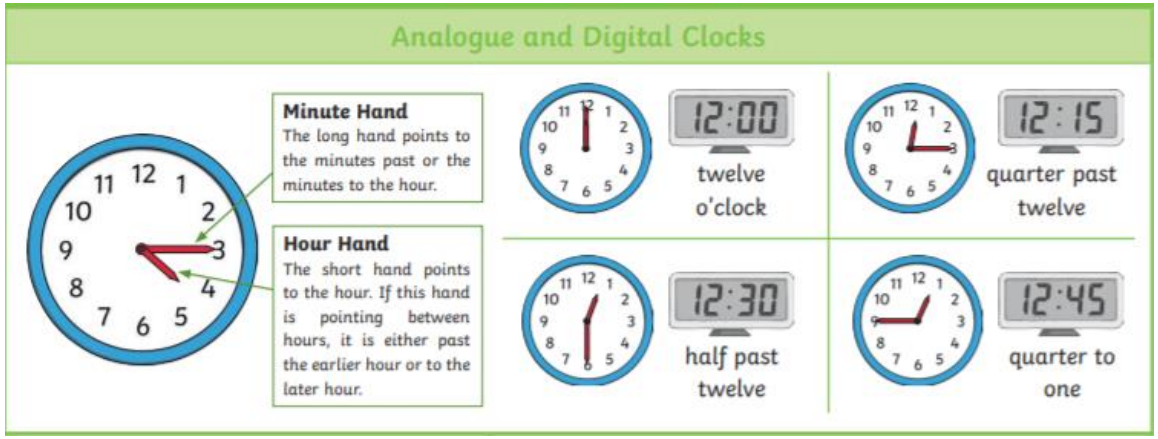




14cm + 19cm = 33cm

8cm 2mm + 16mm = 98mm or 9cm 8mm

| ? | |
|---|---|
| 8cm 2mm | 16mm |
| 82mm | 16mm |




**What I Should Already Know:**

- How to choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit,
- How to use rulers, scales, thermometers and measuring vessels
- How to compare and order lengths, mass, volume/capacity and record the results using >, < and =
- How to recognise and use symbols for pounds (£) and pence (p)
- How to combine amounts to make a particular value
- How to find different combinations of coins that equal the same amounts of money
- How to solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change
- How to compare and sequence intervals of time
- How to tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times
- The number of minutes in an hour and the number of hours in a day
- How to interpret and construct simple pictograms, tally charts, block diagrams and simple tables
- How to ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity
- How to ask and answer questions about totalling and comparing categorical data