

Diving into Mastery



# Comparison, Sum and Difference

twinkl

# Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



**Diving**



**Deeper**



**Deepest**

These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

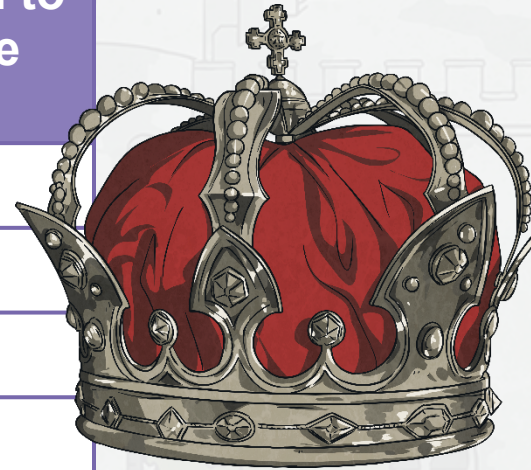
# Aim

- Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.





King or Queen	Length of Reign to Nearest Whole Year
Edward VII	9
George V	26
Edward VIII	1
George VI	15







How much longer did Edward VII rule than Edward VIII?

8 years

What is the sum of the length of reigns by kings named George?

41



King or Queen	Length of reign = 2 years
Aethelstan	
Edmund I	
Eadred	
Eadwig	

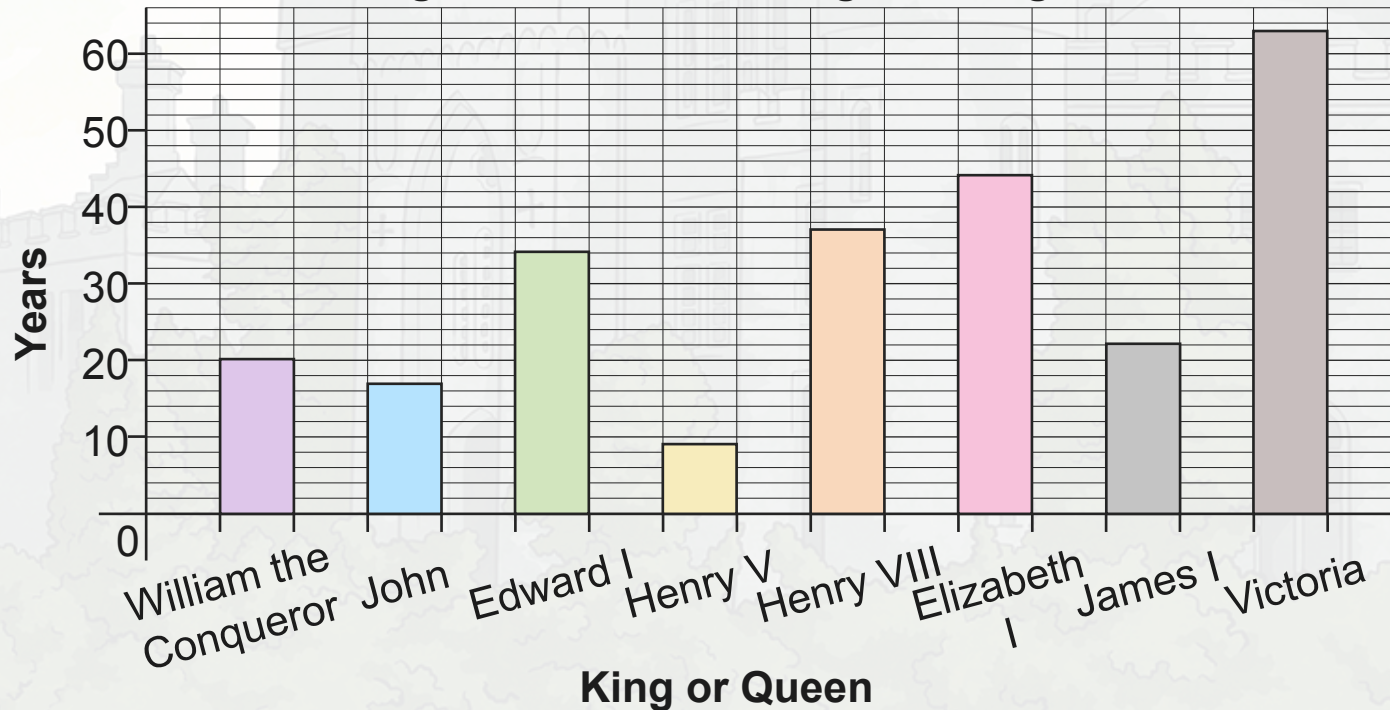
Edmund I ruled for half the time of Aethelstan. How would we show this on the pictogram?

What is the difference between the longest and shortest reign shown?

10 years



A Bar Chart to Show How Many Years Significant Kings and Queens of England Reigned For

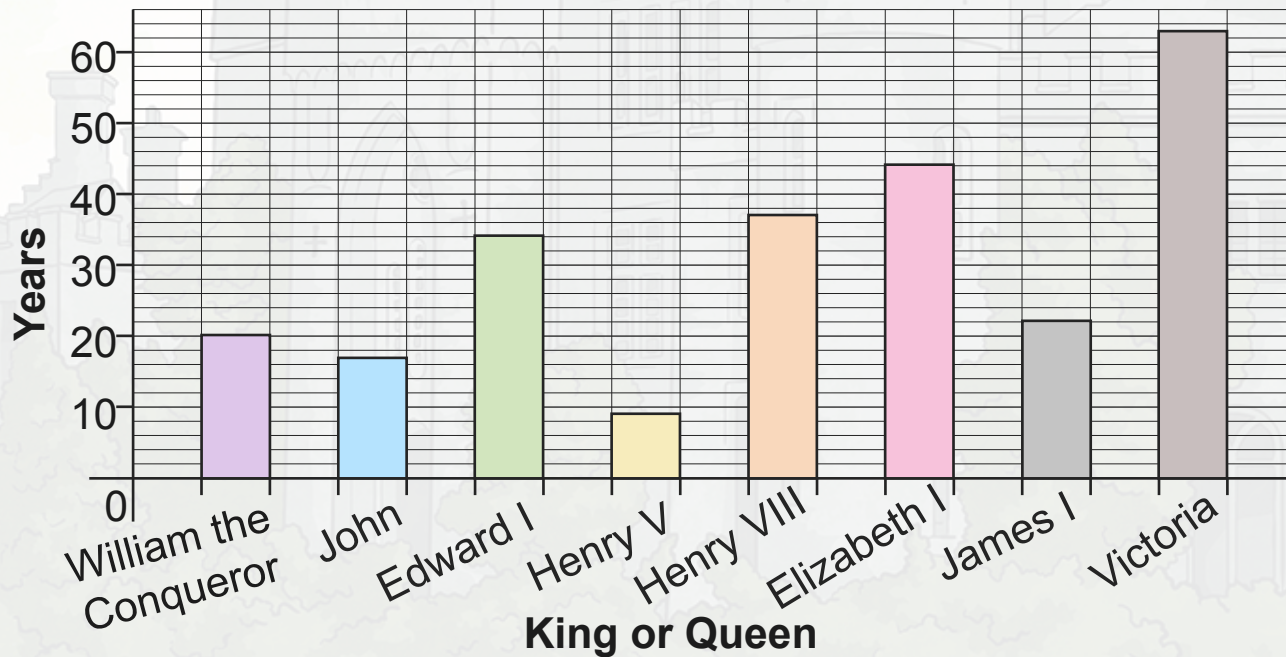


**True or False?** Victoria ruled for more than twice as long as Henry VIII.

False



A Bar Chart to Show How Many Years Significant Kings and Queens of England Reignned For



“James I ruled for 21 years.”

The years go up in twos not ones.

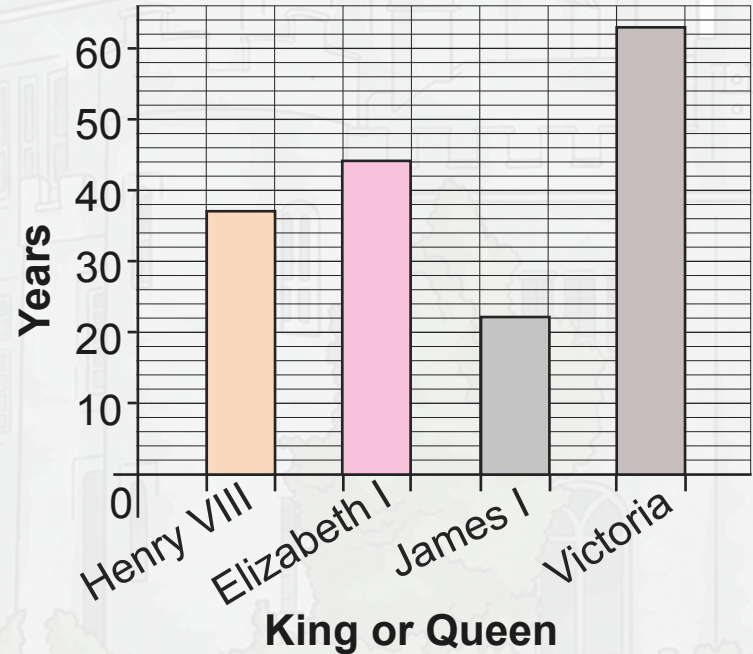
“The male rulers reigned for 47 years.”

I haven't **combined** the reigns of all kings.

What mistakes have I made?



King or Queen	Length of Reign in Years
William the Conqueror	20
John	17
Edward I	34
Henry V	9

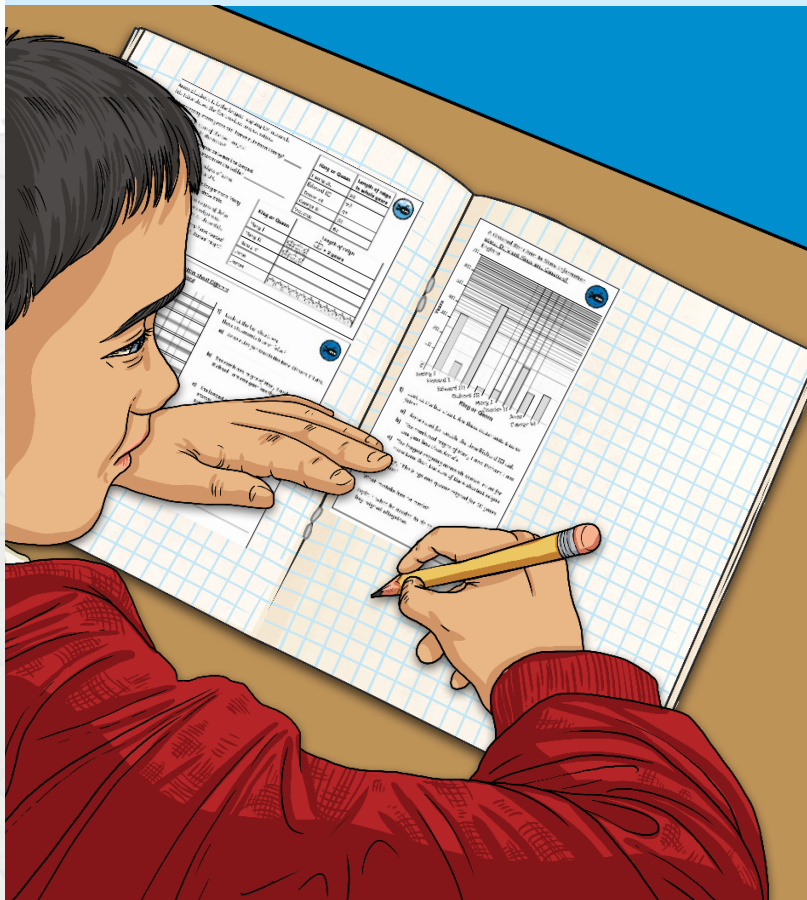


Henry III reigned for 7 years fewer than the longest ruling monarch shown. How long did he reign for?

56 years

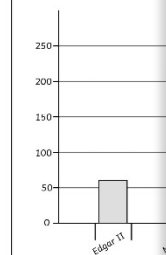
# Comparison, Sum and Difference

Dive in by completing your own activity!



Look at the pictogram and bar chart

King	Length of Reign in Whole Years
Edward V of England	4
Sweyn Forkbeard of England	4
Lady Jane Grey	1



- Look at both the pictogram and the bar chart.
  - Which monarch reigned for the longest time?
  - What is the difference in the length of reigns between the two monarchs?
- Present all the data together in a bar chart. Explain why you have chosen to do this.
- Add the following information to your bar chart:
  - Lulach ruled for 9 days for 3 years.
  - Dafydd ap Gruffydd ruled for 10 years.

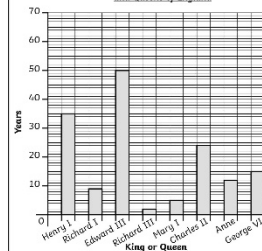
- Queen Elizabeth II is the longest reigning UK monarch. This table shows the five previous longest reigns.
  - How many more years did James rule than Henry?
  - What is the sum of the two longest reigns shown in the table?
  - What is the difference between the longest and shortest reign shown on the table?

King or Queen	Length of Reign in Whole Years
Henry III	56
Edward III	50
James VI	57
George III	59
Victoria	63

- This pictogram shows the reigns of some of the kings and queens of the UK.
  - Henry V ruled for 4 years longer than Mary II. Fill in the pictogram to show this.
  - The difference between the reigns of John and James is 5 years. John's reign was shorter. Fill in the pictogram to show this.
  - How much longer would Henry have needed to stay on the throne to match James' reign?

King or Queen	Length of Reign in Whole Years
Mary I	2
Mary II	2
Henry V	4
John	1
James I	5

A Bar Chart to Show Information about Different Kings and Queens of England



- Look at the bar chart. Are these statements true or false?
  - Anne ruled for double the time Richard III did.
  - The combined reigns of Mary I and Richard I are one year shorter than Anne's.
  - The longest reigning monarch shown ruled for more time than the sum of the 4 shortest reigns.

- Jack says, "The kings and queens reigned for 50 years altogether." What mistake has he made?

Explain what he needed to do to work out how long they reigned altogether.

# Need Planning to Complement this National Curriculum Aim

Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

For more planning resources to support this aim, [click here](#).

This collage features three main resource cards: 'Venn Diagram Questions' with a Venn diagram showing the overlap of 'Soccer' and 'Basketball' interests; 'All About Us Statistics' with a large play button icon; and 'Carroll Diagrams' with a Carroll diagram for 'Favorite Foods' and 'Favorite Colors'. Below these are several worksheets titled 'Statistics: All About Us Statistics' and 'All About Us Statistics: Class 4 Database', along with a 'twinkl planit' logo.

This collage features two 'Climate Graphs' resource cards. The first card shows a bar chart comparing monthly rainfall in Athens and Cardiff, with a table of data and several questions. The second card shows a similar bar chart with more questions. Both cards include the 'twinkl planit' logo.

Month	Athens (mm)	Cardiff (mm)
Jan	40	80
Feb	45	75
Mar	50	70
Apr	55	65
May	60	60
Jun	65	55
Jul	70	50
Aug	75	45
Sep	80	40
Oct	85	35
Nov	90	30
Dec	95	25

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