

- 1)
 - a) 1
 - b) 122 years
 - c) 13 years
- 2)
 - a) Children should draw $4 \frac{1}{2}$ crowns for Henry V.
 - b) Children should draw $8 \frac{1}{2}$ crowns for John.
 - c) 13 years



- 1)
 - a) false
 - b) false
 - c) true
- 2) He has read the longest time as the total.
He needs to add the value of each bar together.



- 1)
 - a) Edmund II
 - b) 212 days (accept other close answers)
 - c) 49 days
- 2) Children should choose a bar chart and reason that this is due to the difficulty in showing large numbers in a pictogram.
- 3)
 - a) Children should add data for 212 days.
 - b) Children should add data for 296 days.







1) Queen Elizabeth II is the longest reigning UK monarch. This table shows the five previous longest reigns.

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



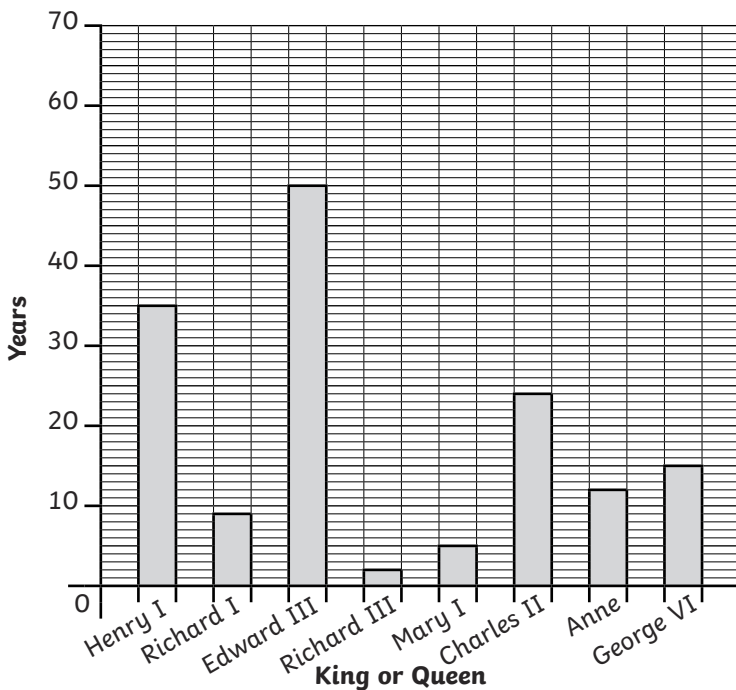
- How many more years did James rule than Henry? _____
- What is the sum of the two longest reigns shown in the table? _____
- What is the difference between the longest and shortest reign shown on the table? _____

2) This pictogram shows the reigns of some of the kings and queens of the UK.

King or Queen	Length of Reign  = 2 years
Mary I	
Mary II	
Henry V	
John	
James I	

- 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?

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.

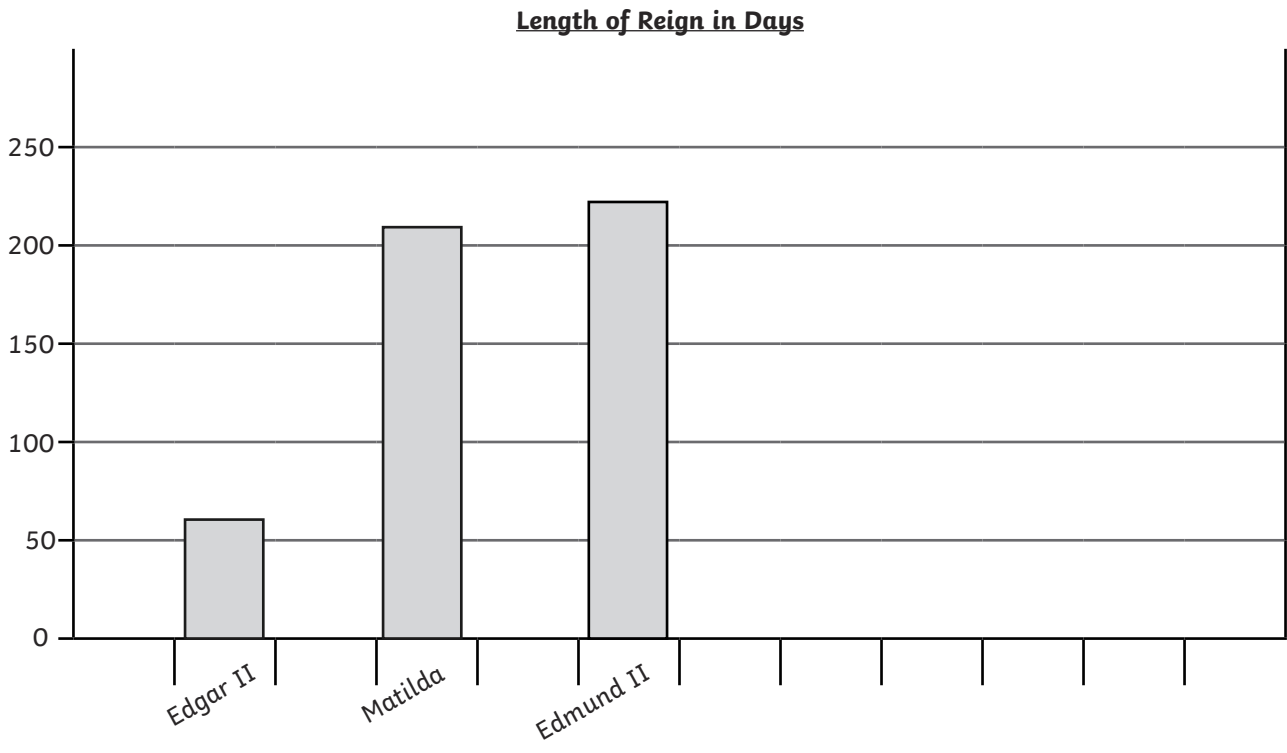
2) Jack says, "The kings and queens reigned for 50 years altogether." What mistake has he made?

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



Look at the pictogram and bar chart showing the reigns of monarchs.

King	Length of Reign  = 5 days
Edward V of England	
Sweyn Forkbeard of England	
Lady Jane Grey	



- 1) Look at both the pictogram and bar chart.
 - a) Which monarch reigned for the longest amount of time? _____
 - b) What is the difference in time between the longest reign and shortest reign shown? _____
 - c) What is the sum of the 2 shortest reigns combined? _____

- 2) Present all the data together as either a bar chart or pictogram on graph paper.
 Explain why you have chosen to present your data this way.

- 3) Add the following information to your bar chart or pictogram.
 - a) Lulach ruled for 9 days fewer than the longest serving monarch shown.
 - b) Dafydd ap Gruffydd ruled for 10 days more than Matilda and Edward V combined.

Diving into Mastery



Comparison, Sum and Difference

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	

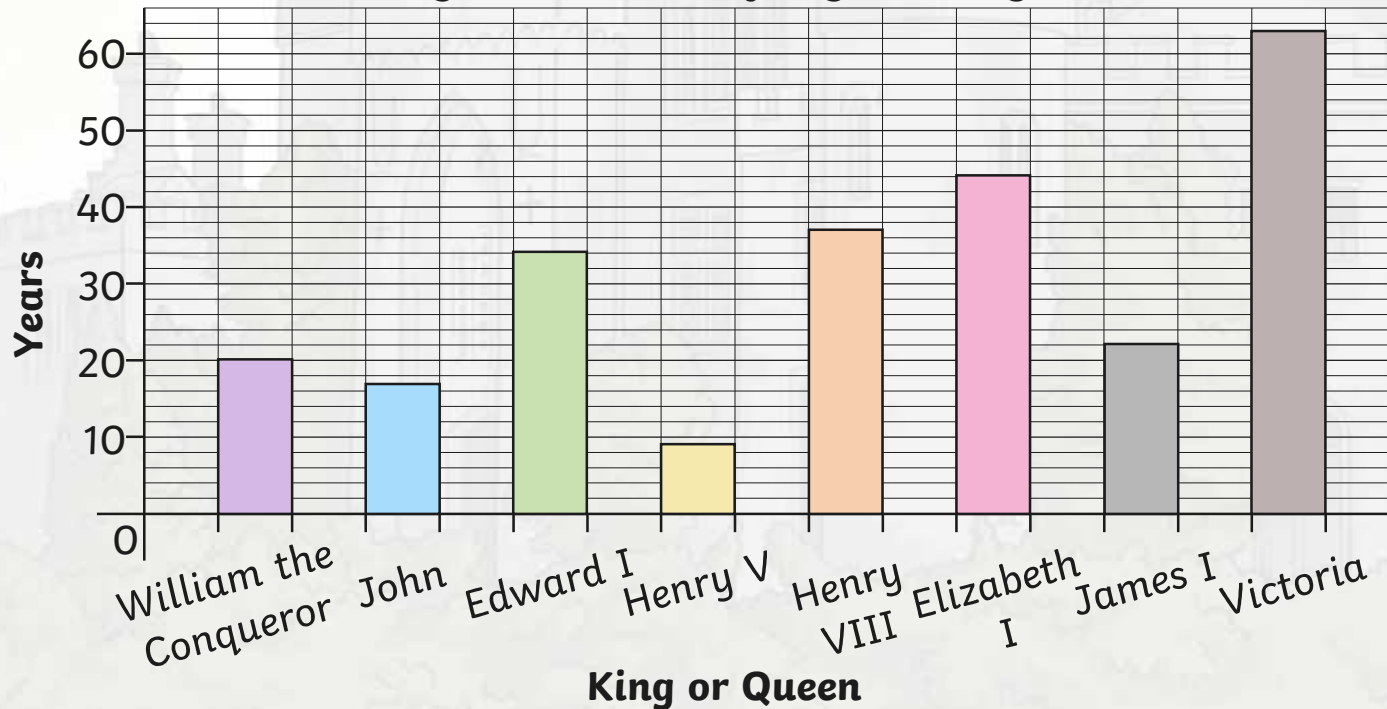
Edmund I ruled for half the time of Aethelstan. How would we show this on the pictogram?

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.

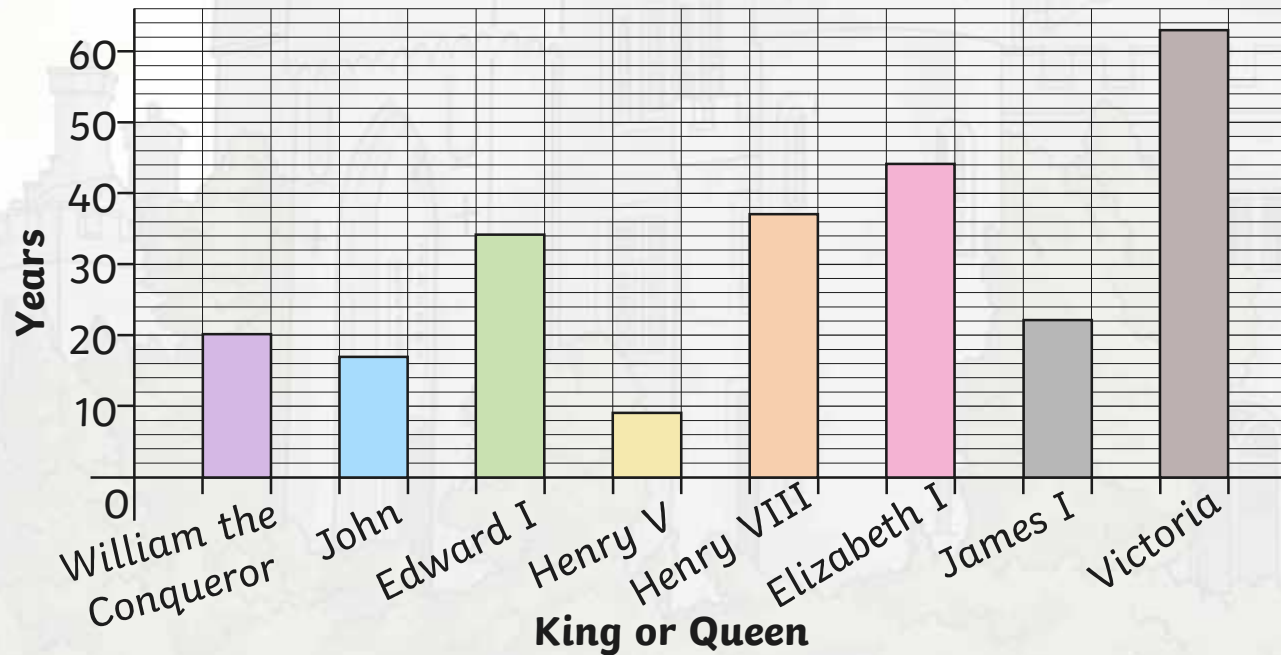
False

Comparison, Sum and Difference

Deeper



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

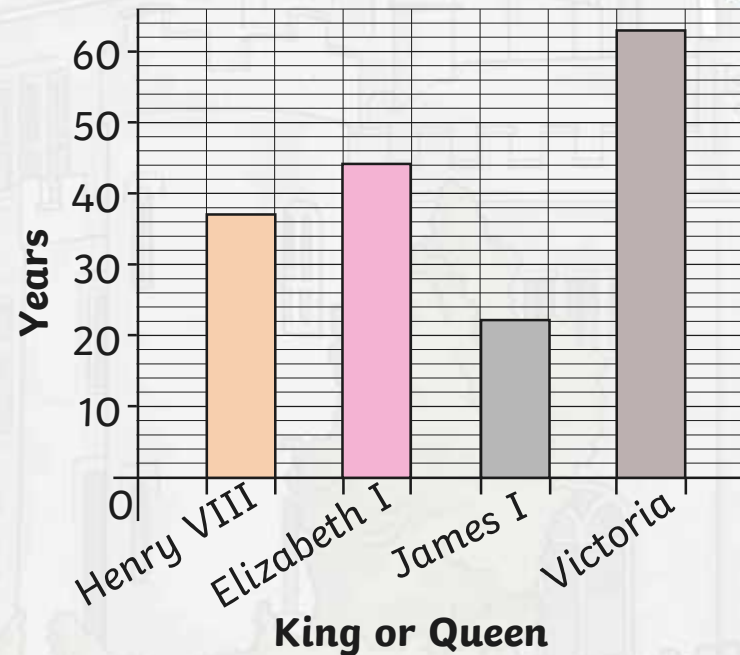
What mistakes have I made?

Measuring Angles in Degrees

Deepest



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

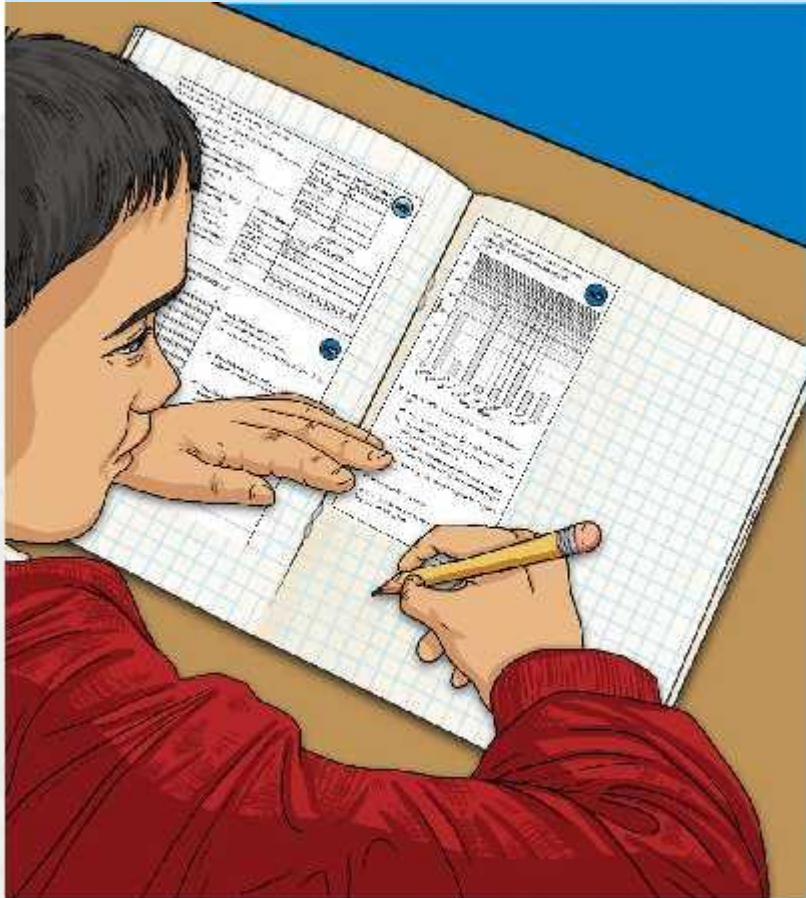


Henry III reigned for 7 years fewer than the longest ruling monarch shown. How long did he reign for?

56 years

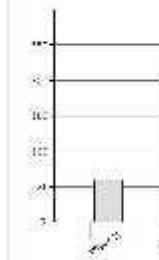
Comparison, Sum and Difference

Dive in by completing your own activity!



1) Draw a bar graph to compare the data in the table below.

Year	Population (in lakhs)
1995	10
2000	15
2005	20
2010	25
2015	30



- 2) Complete the following table.
- | Year | Population (in lakhs) |
|------|-----------------------|
| 1995 | 10 |
| 2000 | 15 |
| 2005 | 20 |
| 2010 | 25 |
| 2015 | 30 |

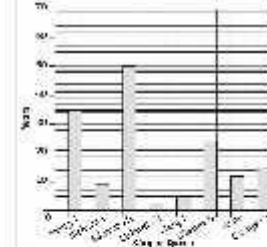
- 3) Complete the following table.
- | Year | Population (in lakhs) |
|------|-----------------------|
| 1995 | 10 |
| 2000 | 15 |
| 2005 | 20 |
| 2010 | 25 |
| 2015 | 30 |

- 4) Draw a bar graph to compare the data in the table below.
- | Year | Population (in lakhs) |
|------|-----------------------|
| 1995 | 10 |
| 2000 | 15 |
| 2005 | 20 |
| 2010 | 25 |
| 2015 | 30 |

Major Queue	Length of Queue (in lakhs)
Queue I	10
Queue II	20
Queue III	30
Queue IV	40
Queue V	50

Major Queue	Length of Queue (in lakhs)
Queue I	10
Queue II	20
Queue III	30
Queue IV	40
Queue V	50

5) Draw a bar graph to compare the data in the table below.



- 6) Complete the following table.
- | Class | Number of Students |
|-----------|--------------------|
| Class I | 20 |
| Class II | 30 |
| Class III | 40 |
| Class IV | 50 |
| Class V | 60 |
| Class VI | 70 |

- 7) Complete the following table.
- | Class | Number of Students |
|-----------|--------------------|
| Class I | 20 |
| Class II | 30 |
| Class III | 40 |
| Class IV | 50 |
| Class V | 60 |
| Class VI | 70 |


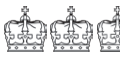

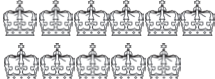


- 1) Queen Elizabeth II is the longest reigning UK monarch. This table shows the five previous longest reigns.



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

- 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  = 2 years
Mary I	
Mary II	
Henry V	
John	
James I	


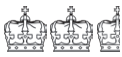

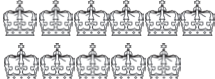
- 2) This pictogram shows the reigns of some of the kings and queens of the UK.
- Henry V ruled for 4 years longer than Mary II. Fill in the pictogram to show this.
 - The difference between the reigns of John and James is 5 years. John's reign was shorter. Fill in the pictogram to show this.
 - How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

- 1) Queen Elizabeth II is the longest reigning UK monarch. This table shows the five previous longest reigns.



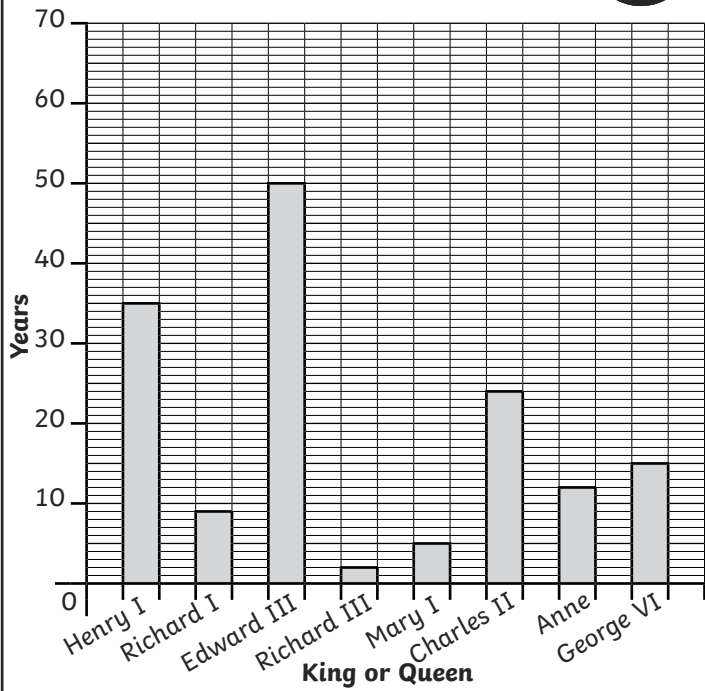
King or Queen	Length of Reign in Whole Years
Henry III	56
Edward III	50
James VI	57
George III	59
Victoria	63

- 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  = 2 years
Mary I	
Mary II	
Henry V	
John	
James I	

- 2) 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?

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

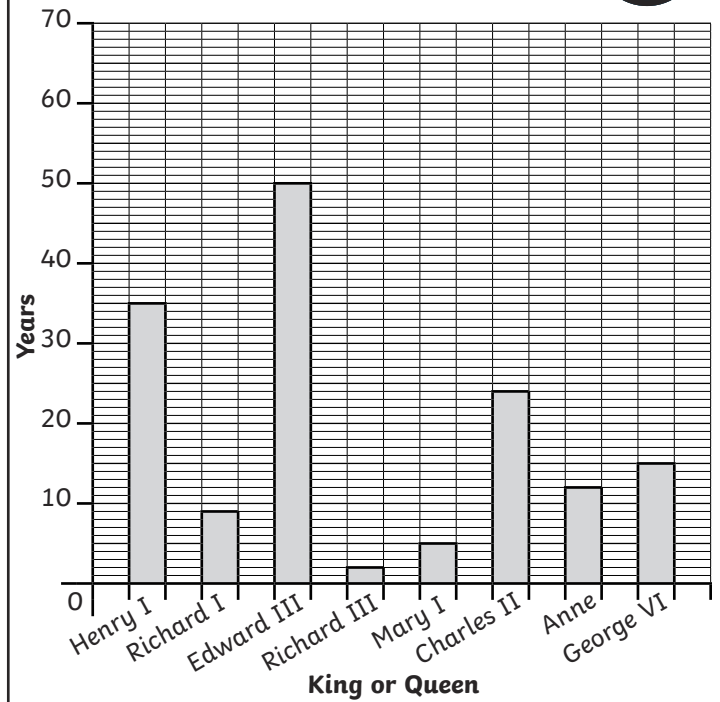


- 1) Look at the bar chart. Are these statements true or false?
 - a) Anne ruled for double the time Richard III did.
 - b) The combined reigns of Mary I and Richard I are one year shorter than Anne's.
 - c) The longest reigning monarch shown ruled for more time than the sum of the 4 shortest reigns.
- 2) 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.

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







- 1) Look at the bar chart. Are these statements true or false?
 - a) Anne ruled for double the time Richard III did.
 - b) The combined reigns of Mary I and Richard I are one year shorter than Anne's.
 - c) The longest reigning monarch shown ruled for more time than the sum of the 4 shortest reigns.
- 2) Jack says, "The kings and queens reigned for 50 years altogether."

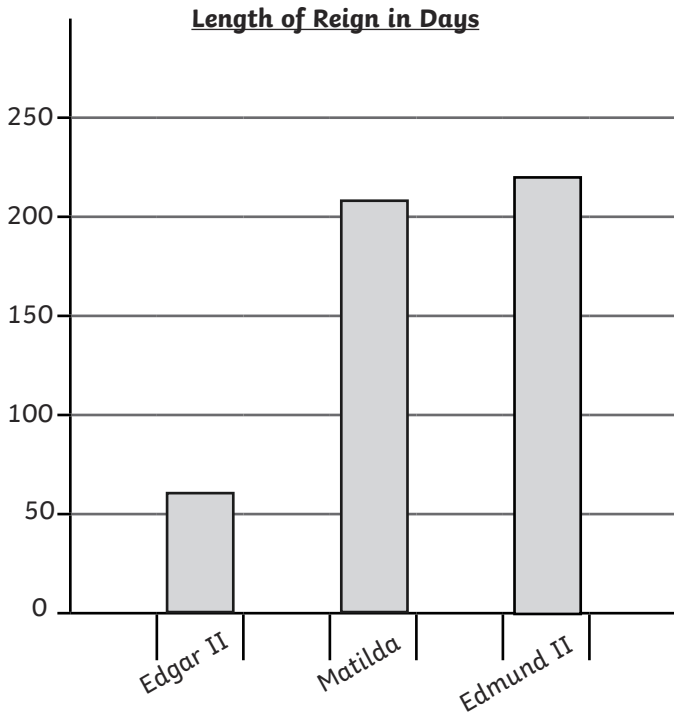
What mistake has he made?

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

Look at the pictogram and bar chart showing the reigns of monarchs.







King	Length of Reign  = 5 days
Edward V of England	
Sweyn Forkbeard of England	
Lady Jane Grey	

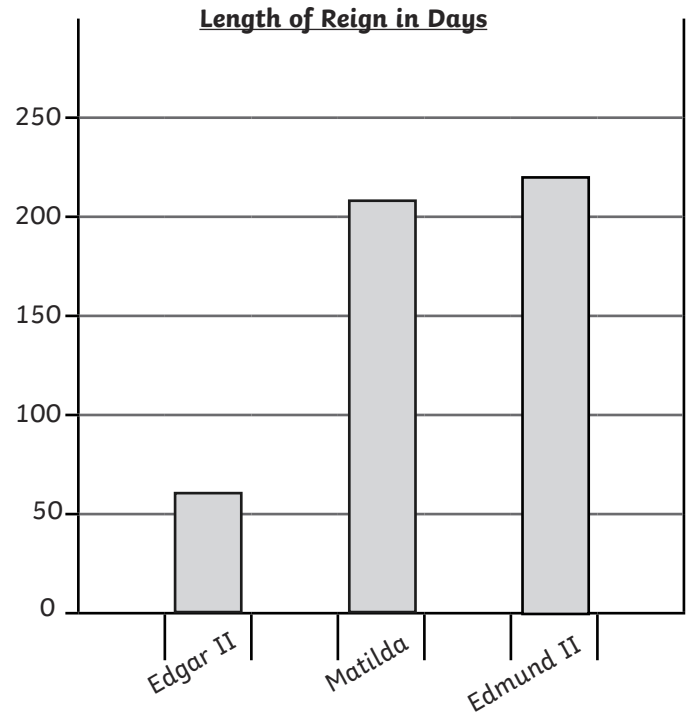


- 1) Look at both the pictogram and bar chart.
 - a) Which monarch reigned for the longest amount of time?
 - b) What is the difference in time between the longest reign and shortest reign shown?
 - c) What is the sum of the 2 shortest reigns combined?
- 2) Present all the data together as either a bar chart or pictogram in your book. Explain why you have chosen to present your data this way.
- 3) Add the following information to your bar chart or pictogram.
 - a) Lulach ruled for 9 days fewer than the longest serving monarch shown.
 - b) Dafydd ap Gruffydd ruled for 10 days more than Matilda and Edward V combined.

Look at the pictogram and bar chart showing the reigns of monarchs.



King	Length of Reign  = 5 days
Edward V of England	
Sweyn Forkbeard of England	
Lady Jane Grey	



- 1) Look at both the pictogram and bar chart.
 - a) Which monarch reigned for the longest amount of time?
 - b) What is the difference in time between the longest reign and shortest reign shown?
 - c) What is the sum of the 2 shortest reigns combined?
- 2) Present all the data together as either a bar chart or pictogram in your book. Explain why you have chosen to present your data this way.
- 3) Add the following information to your bar chart or pictogram.
 - a) Lulach ruled for 9 days fewer than the longest serving monarch shown.
 - b) Dafydd ap Gruffydd ruled for 10 days more than Matilda and Edward V combined.