

RECALL

2

$= 6,138 + 456$

☐

1 mark

4

$= 8,005 + 408$

☐

1 mark

8

$= 8,217 - 5,463$

☐

1 mark

RECALL

	2	3	4	5	6	7	8
+	1	2	3	4	5	6	7
	3	5	7	9	1	3	5
				1	1	1	

	2	3	4	5	6	7	8
-	1	2	3	4	5	6	7
	1	1	8	0	2	4	5
				1	1	1	

Have I calculated these sums correctly?

L.O. SOLVE ADDITION AND SUBTRACTION MULTI
STEP PROBLEMS IN CONTEXTS, DECIDING WHICH
OPERATIONS AND METHODS TO USE AND WHY.

- **SOME WILL EVEN:** Solve problems using inverse operations.
- **SOME WILL:** Find missing numbers in calculations.
- **MOST WILL:** Identify operation according to vocabulary.
- **ALL WILL:** Use column method for addition and subtraction.

EXPLORE



Queen Victoria was crowned in 1837 and reigned until she died in 1901.



a) How long was Queen Victoria's reign?

b) Queen Elizabeth II's reign began in 1952 and she died in 2022.

How many years were there between the end of Queen Victoria's reign and the beginning of Elizabeth II's reign?

help

Use a number line or column to calculate.



Who had the longest reign between the two queens?

EXPLORE



Elizabeth I became Queen in 1558. She was monarch until she died, 45 years later.

a) In what year did Queen Elizabeth I die?

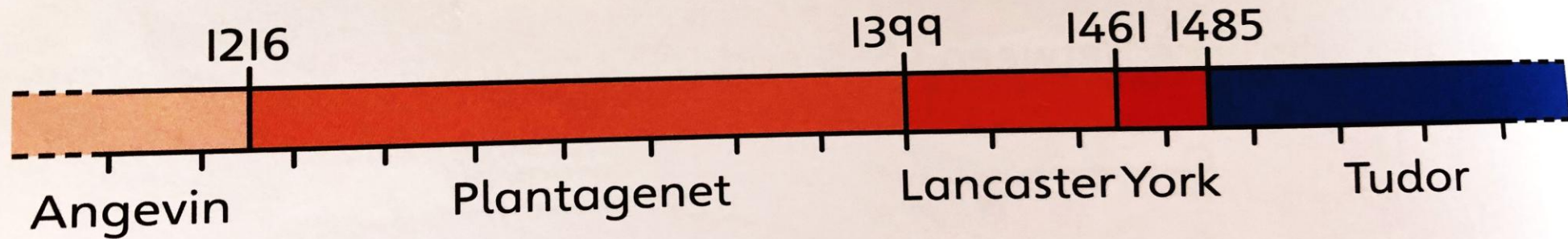
b) Queen Elizabeth II's reign began in 1952 and ended in 2022. How many years were there between the beginning of Elizabeth I's reign and the beginning of Elizabeth II's reign?

help

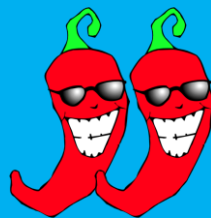
Use a number line or column to calculate.



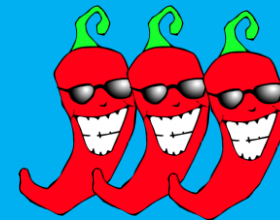
How long did Queen Elizabeth II reign for? Explain how you worked it out. Did you need a written calculation?



How long was the rule of the House of Lancaster?



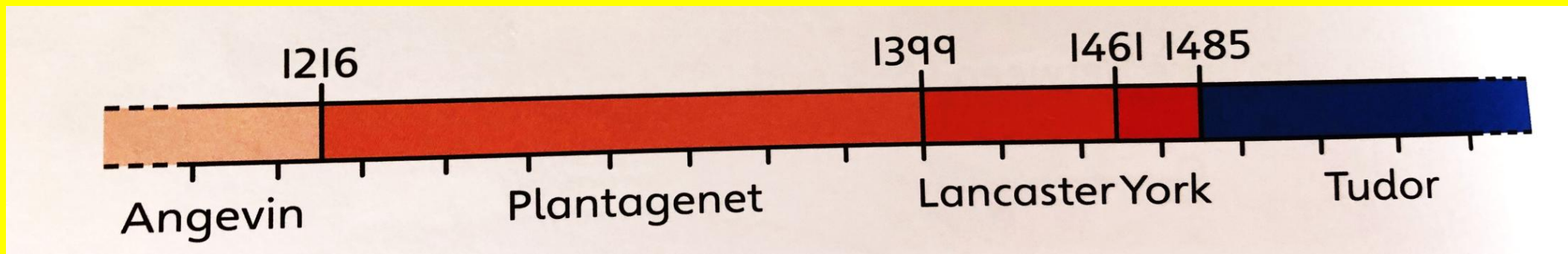
The Tudor reign lasted 118 years. When did it end?



The Angevin reign lasted 199 years. When did it begin?



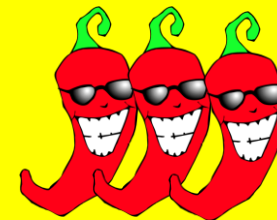
How long are the reigns in red in total?
How long are all five reigns in total?



62 years



1603



1017

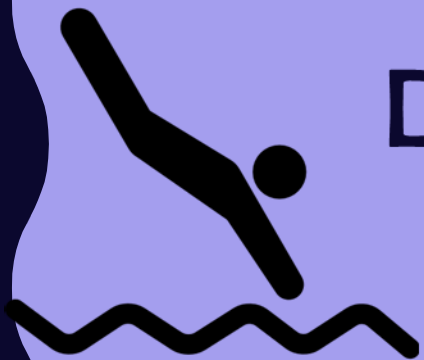


How long are the reigns in red in total?

$$1485 - 1216 = 269 \text{ years}$$

How long are all five reigns in total?

$$1603 - 1017 = 586 \text{ years}$$



DIVE DEEPER 1

a)

This sign shows the number of **empty spaces** on each level of a car park at 10am.

 Empty Spaces	
Level 2	511
Level 1	268

In this car park, **each** level has 800 spaces.

What is the total number of cars **parked** in the car park at 10am?

Reflect

To work out $5,000 - 1,728$, you can do $4,999 - 1,727$. Explain why.

Use a similar method to work out $50,000 - 26,304$.



b)

Some children vote for their favourite ice-cream flavour.

Ice-cream flavour	Number of children
vanilla	87
chocolate	154
strawberry	?
mint	38
Total	402

How many children vote for **strawberry**?

Amelia scored 29,750 fewer points than Bella. Bella scored 15,200 points, then 21,500 points.

How many points did they score altogether?

Amelia

Bella

c)



DIVE DEEPER 1

a)

$$800 - 511 = 289$$
$$800 - 268 = 532$$

 Empty Spaces	
Level 2	511
Level 1	268

In this car park, **each** level has 800 spaces.

What is the total number of cars **parked** in the car park at 10am?

821

Reflect

To work out $5,000 - 1,728$, you can do $4,999 - 1,727$. Explain why.

Use a similar method to work out $50,000 - 26,304$.



b)

Some children vote for their favourite ice-cream flavour.

Ice-cream flavour	Number of children
vanilla	87
chocolate	154
strawberry	123
mint	38
Total	402

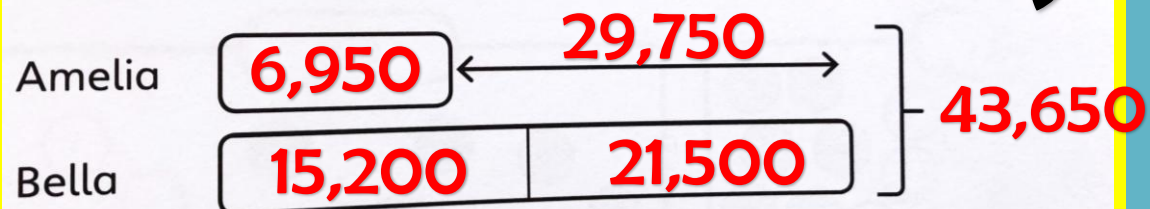
$$87 + 154 + 38 = 279$$
$$402 - 279 =$$

How many children vote for **strawberry**?

Amelia scored 29,750 fewer points than Bella. Bella scored 15,200 points, then 21,500 points.

How many points did they score altogether?

c)



d)



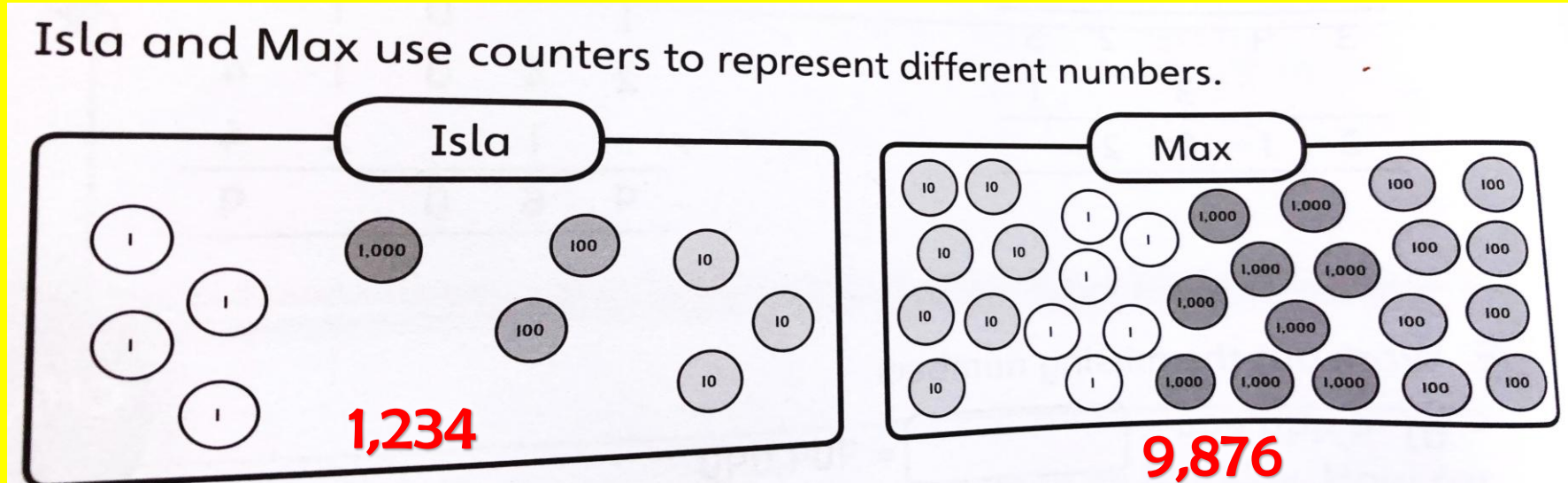
- Reena makes the number 14,321. How much bigger is Reena's number than Isla's number?
- How much bigger is Reena's number than Max's number and Isla's number combined?



DIVE DEEPER 2



d)

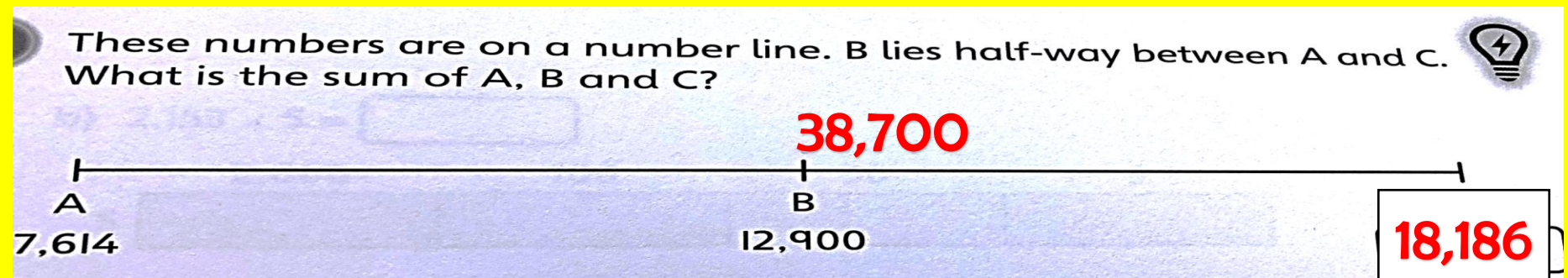


a) Reena makes the number 14,321. How much bigger is Reena's number than Isla's number?

13,087

a) How much bigger is Reena's number than Max's number and Isla's number combined?

3211



6

Kirsty buys 1 litre of apple juice for £1.39

She pays with a £5 note.

How much change does Kirsty get?

£

1 mark

11

At the start of April, a shop had **15,000** games.

The shop sold:

- **7,918** games in April
- **4,624** games in May.

How many games did the shop have left at the end of May?

Show
your
method

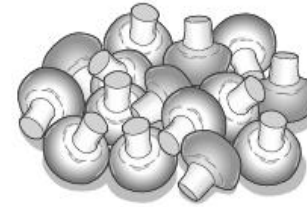
games

2 marks

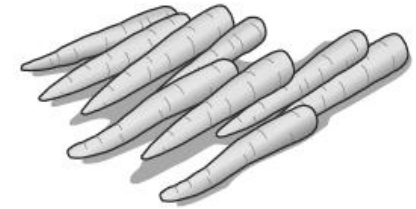
2023 SATS examples

19

These are the prices of some vegetables in a shop.



Mushrooms
£3.20 for 1 kg



Carrots
60p for 1 kg

Layla buys **500 grams** of mushrooms and **$1\frac{1}{4}$ kg** of carrots.

She pays with a **£5** note.

How much change does Layla get?



What Distance?

Here are the distances (as the crow flies) in kilometres from London to various cities in the world:

Abu Dhabi 5480 	Barcelona 1139 	Cape Town 9680 
New Delhi 6718 	Edmonton 6805 	Florence 1209 
Gothenburg 1039 	Houston 7812 	Istanbul 2501 
Jerusalem 3611 	Karachi 6314 	Launceston 17425 



What Distance?

Challenge 1

Once you have travelled the first 1000km, how much further will you have to go for each of the twelve journeys?

Rather than actually performing each calculation, could you say which you think will be the most difficult and which will be the easiest, and why?

Now create some similar questions of your own.

Challenge 2

The distance from Copenhagen to London is approximately 1000km. If you always start at Copenhagen before travelling to London for all of the journeys shown above, how far would you travel in each case?

