

L.O. To solve addition and subtraction
word problems.

Wednesday

Problem of the day

5

Use **each** number card **once** to make the answer to each calculation an **even** number.

3

4

5



5

×

12

÷

9

+

5i

5ii

2 marks

Problem of the day

5

Use **each** number card **once** to make the answer to each calculation an **even** number.

3

4

5



5

×

4

12

÷

3

9

+

5

5i

5ii

2 marks

How do we solve word problems?

- **R** - read the problem
- **U** - understand the question
- **C** - choose how to solve the problem
- **S** - solve the problem
- **A** - answer the question
- **C** - check your answer

There are **6,831 people** in a stadium. ~~3,501 are men and 3,430 are women.~~ **2,732 people leave.** How many **people** are there in the stadium **now**?

U

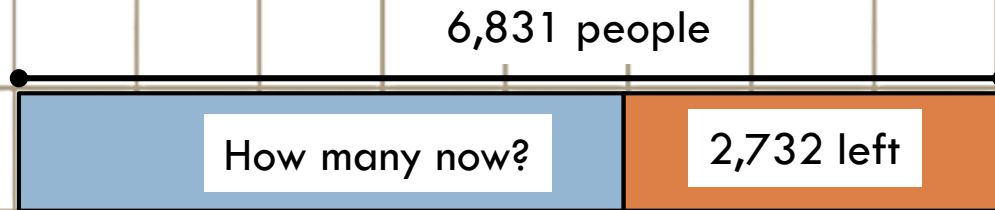
Identify the important information and the information you don't need.

The question only asks about people so it doesn't matter how many are men and how many are women.

There are **6,831 people** in a stadium. ~~3,501 are men and 3,430 are women.~~ **2,732 people leave.** How many **people** are there in the stadium **now**?

C

Use a bar diagram to help you understand what is happening



This is a subtraction problem $\rightarrow 6,831 - 2,732 = ?$

There are **6,831 people** in a stadium. ~~3,501~~ are men and ~~3,430~~ are women. **2,732 people leave**. How many **people** are there in the stadium **now**?

C

This is a subtraction problem $\rightarrow 6,831 - 2,732 = ?$

$$\begin{array}{r} 6831 \\ - 2732 \\ \hline \\ \hline \end{array}$$

There are **6,831** people in a stadium. ~~3,501~~ are men and ~~3,430~~ are women. **2,732** people leave. How many **people** are there in the stadium now?

S

This is a subtraction problem $\rightarrow 6,831 - 2,732 = ?$

$$\begin{array}{r}
 \overset{7}{\cancel{8}} \overset{1}{\cancel{3}} \overset{1}{1} \\
 - 2 7 3 2 \\
 \hline
 4 0 9 9 \\
 \hline
 \end{array}$$

There are **6,831** people in a stadium. ~~3,501~~ are men and ~~3,430~~ are women. **2,732** people leave. How many **people** are there in the stadium now?

A

This is a subtraction problem $\rightarrow 6,831 - 2,732 = ?$

$$\begin{array}{r} \overset{7}{\cancel{8}} \overset{1}{\cancel{3}} \overset{1}{1} \\ - 2 7 3 2 \\ \hline 4 0 9 9 \\ \hline \end{array}$$

There are 4,099 people in the stadium now.

R

[illegible]

Catherine makes **4,473 cakes** and ~~9,238 biscuits~~ on Saturday. She then makes **3,936 more cakes** on Sunday. How many cakes has she made **altogether**?

U

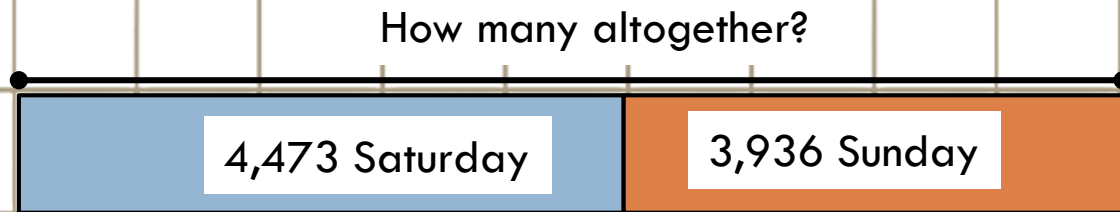
Identify the important information and the information you don't need.

The question only asks about cakes so it doesn't matter how many biscuits she makes.

Catherine makes **4,473 cakes** and ~~9,238 biscuits~~ on Saturday. She then makes **3,936 more cakes** on Sunday. How many cakes has she made **altogether**?

C

Use a bar diagram to help you understand what is happening



This is an addition problem $\rightarrow 4,473 + 3,936 = ?$

Catherine makes **4,473 cakes** and ~~9,238 biscuits~~ on Saturday. She then makes **3,936 more cakes** on Sunday. How many cakes has she made **altogether**?

C

This is an addition problem $\rightarrow 4,473 + 3,936 = ?$

$$\begin{array}{r} 6831 \\ + 2732 \\ \hline \hline \end{array}$$

S

This is an addition problem $\rightarrow 4,473 + 3,936 = ?$

	6	8	3	1
+	2	7	3	2
<hr/>				
	9	5	6	3
<hr/>				
	1			

Catherine makes **4,473 cakes** and ~~9,238 biscuits~~ on Saturday. She then makes **3,936 more cakes** on Sunday. How many cakes has she made **altogether**?

A

This is an addition problem $\rightarrow 4,473 + 3,936 = ?$

$$\begin{array}{r} 6 8 3 1 \\ + 2 7 3 2 \\ \hline 9 5 6 3 \\ \hline 1 \end{array}$$

Catherine made 9,563 cakes altogether.

R

[illegible]

Ahmed has collected **2,837 stickers**. For his birthday he gets **1,385 more stickers**. The next day he loses **1,163 stickers**. How many stickers does he have now?

U

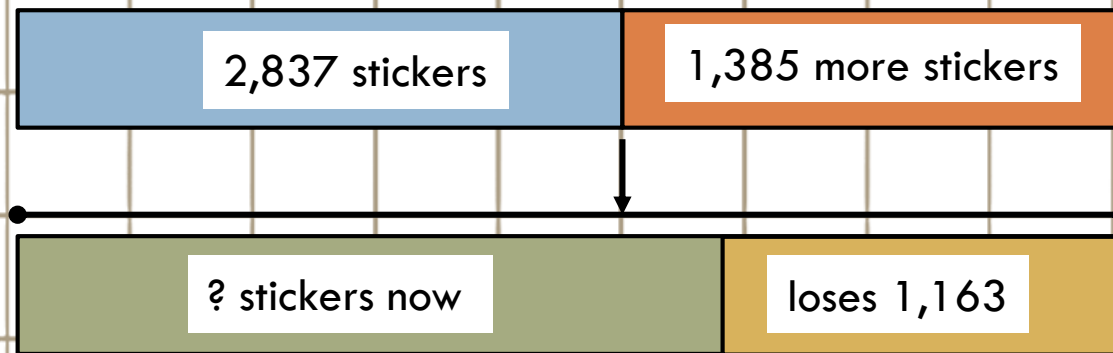
Identify the important information and the information you don't need.

This is a 2 step problem – he gains stickers and then he loses them.

Ahmed has collected **2,837 stickers**. For his birthday he **gets 1,385 more stickers**. The next day he **loses 1,163 stickers**. How many stickers does he have **now**?

C

Use a bar diagram to help you understand what is happening



This problem needs addition and then subtraction →

$$2,837 + 1,385 = ?$$

$$? - 1,163$$

Ahmed has collected **2,837 stickers**. For his birthday he **gets 1,385 more stickers**. The next day he **loses 1,163 stickers**. How many stickers does he have **now**?

C

This problem needs addition and then subtraction →

$$2,837 + 1,385 = ?$$

$$? - 1,163$$

$$\begin{array}{r} 2837 \\ + 1385 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} - 1163 \\ \hline \\ \hline \end{array}$$

Ahmed has collected **2,837 stickers**. For his birthday he **gets 1,385 more stickers**. The next day he **loses 1,163 stickers**. How many stickers does he have **now**?

S

This problem needs addition and then subtraction →

$$2,837 + 1,385 = ?$$

$$? - 1,163$$

	2	8	3	7
+	1	3	8	5
<hr/>				
	4	2	2	2
<hr/>				
	1	1	1	

-	1	1	6	3
<hr/>				
<hr/>				

Ahmed has collected **2,837 stickers**. For his birthday he **gets 1,385 more stickers**. The next day he **loses 1,163 stickers**. How many stickers does he have **now**?

S

This problem needs addition and then subtraction →

$$2,837 + 1,385 = ?$$

$$? - 1,163$$

	2	8	3	7
+	1	3	8	5
<hr/>				
	4	2	2	2
<hr/>				
	1	1	1	

	4	2	2	2
-	1	1	6	3
<hr/>				
<hr/>				

S

? – 1,163

	2	8	3	7
+	1	3	8	5
<hr/>				
	4	2	2	2
<hr/>				
	1	1	1	

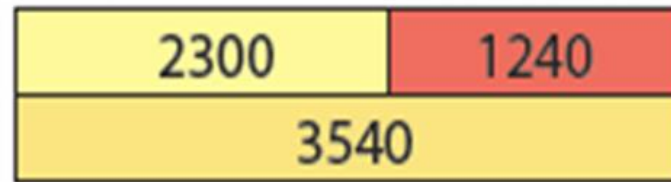
		1	1	
	4	2	2	¹ 2
-	1	1	6	3
	3	0	5	9

Task

1. Fred has 2729 stickers. His brother gives him 1174 stickers and 58 sweets. How many stickers does Fred have now?
2. 3645 people arrive to see a concert. After the concert starts 1637 people leave and 2193 people arrive. How many people are watching the concert?
3. Aisha has £72.47 to spend. She buys a game for £32.95. How much money does she have now?
4. A factory is making cakes. On Saturday they make 2734 cakes and on Sunday they make 3273 cakes. On Monday they make 2184 cakes and 1837 biscuits. How many cakes did they make altogether?
5. Romy wants to save £81.38 to buy a bike. Over 4 weeks he manages to save £62.37. He then decides to spend £15.92 on a game. How much more money does he need to save?

Plenary

Write down the four relationships you can see in the bar model:



$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} =$$

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} =$$

$$\underline{\hspace{2cm}} - \underline{\hspace{2cm}} =$$

$$\underline{\hspace{2cm}} - \underline{\hspace{2cm}} =$$