

### What is Rounding?

Rounding is a great way to make a number simpler and keeping the number close to the value that it was. For example: These numbers are rounded to the closest 10  $68 \rightarrow 70$  $23 \rightarrow 20$ 

Numbers can also be rounded to the nearest 100 7183  $\rightarrow$  7200 4109  $\rightarrow$  4100

Or even the nearest .100 (one hundredth) 10.123  $\rightarrow$  10.12 14.667  $\rightarrow$  14.67

### What is Estimating?

We use estimation in mathematics when we are not trying to get the exact answer.

Estimation is finding an answer or number that is close enough to the correct answer.

It is a quick way to get close to the answer.

Estimation is good for your brain and can be fun to try and work out the answer quickly that is close enough to the answer.

When estimating we use the approximately symbol.

### **Rounding to Estimate - Addition**

For these calculations, what rounded calculation would you use to check the answer:

<b>3487 + 2725 =</b> 6212	3500 + 2700 = 6200	
<b>5892 + 614 =</b> 6506	5900 + 600 = 6500	-
<b>7523 + 3892 =</b> 11 415	7500 + 3900 = 11 400	
<b>713 + 4661 =</b> 5374	700 + 4700 = 5400	T
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### **Rounding to Estimate- Addition**

For these calculations, what rounded calculation would you use to check the answer:

<b>5387 – 2025 =</b> 3362	5400 - 2000 = 3400	
<b>7296 - 714 =</b> 6582	7300 - 700 = 6600	
<b>8952 – 5773 =</b> 3179	9000 – 5 800 = 3200	
<b>10 303 – 6281 =</b> 4022	10 300 - 6300 = 4000	

# Determine when 'Estimation' has been used?

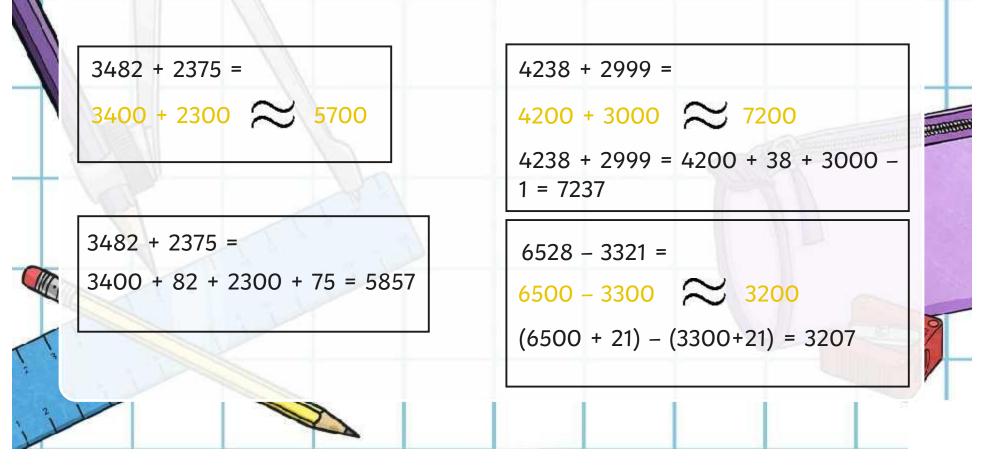
Alex looked at the number of pencils in the first pencil pot and then counted how many pencil pots were in the class and gave an approximate answer.

or

Alex collected all the pots in a class then counted the number of pencils in the first number pot and multiplied the answer by the number of pots in the classroom, therefore correctly identifying the number of pencils in each class.

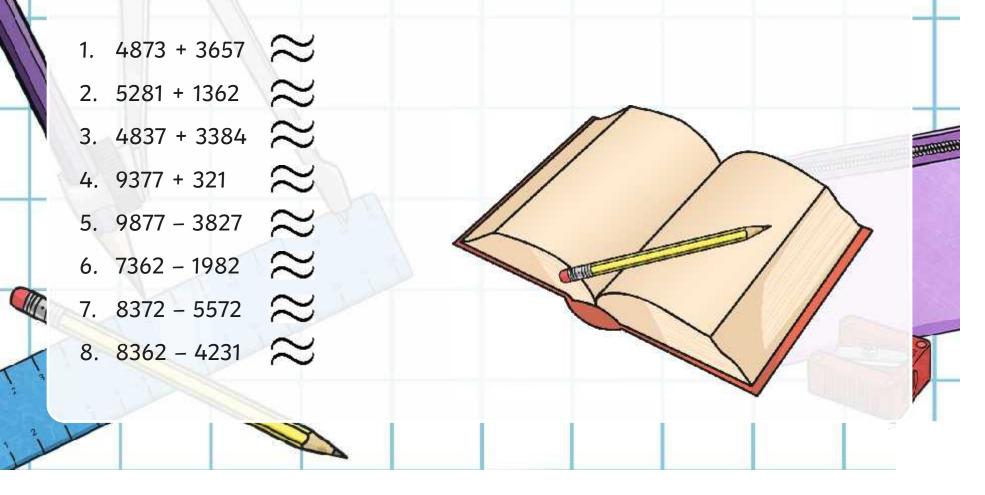
## Determine when 'Rounding' has been used?

Sarah was working on some addition and subtraction equations and was solving the equations to find the answer. Which equations did Sarah solve using Rounding?



### Your Turn

Complete these questions by estimating and using rounding to help you find the approximate answer.



#### Your Turn - Answers

Complete these questions by estimating and using rounding to help you find the approximate answer.

