








# Number and Place Value: Rounding 4-Digit Numbers to 10, 100 and 1000

<p><b>Aim:</b> To round any number to the nearest 10, 100 or 1000.</p> <p>DfE Ready-to-Progress Criteria: Reason about the location of any four-digit number in the linear number system, including identifying the previous and next multiple of 1,000 and 100, and rounding to the nearest of each. (4NPV-3)</p> <p>To round 4-digit numbers to the nearest 10, 100 and 1000.</p>	<p><b>Success Criteria:</b></p> <p>I can identify the multiples of 10, 100 and 1000 that a 4-digit number is between.</p> <p>I can identify which digit to focus on in order to round to either 10, 100 or 1000.</p> <p>I can identify which digits round up and which digits round down.</p>	<p><b>Resources:</b></p> <p><a href="#">Lesson Pack</a></p> <p>Dice</p>
	<p><b>Key/New Words:</b></p> <p>Round, rounded to, digit, place value, ten thousands, thousands, hundreds, tens, ones, whole number.</p>	<p><b>Preparation:</b></p> <p><a href="#">Secret Agent Rounding Game</a> - 1 per pair/group</p> <p><a href="#">Diving into Mastery Activity Sheets</a> - as required</p>

**Prior Learning: Year 3 Conceptual Prerequisite:** It will be helpful if children can reason about the location of any three-digit number in the linear number system, including identifying the previous and next multiple of 10 and 100. [Estimating on a Number Line](#) is the perfect lesson to support this.

## Learning Sequence

	<p><b>Remember It:</b> Using the corresponding slide on the <a href="#">Lesson Presentation</a>, the children practise counting forwards and backwards from any 4-digit number in steps of 10 and 100 crossing multiples of 1000. Can the children explain which digit always changes when counting in steps of 100, and what happens to the digits in a number when crossing a multiple of 1000?</p>	
	<p><b>Secret Agent Hideout:</b> Use the corresponding slides on the <a href="#">Lesson Presentation</a> to rehearse rounding 4-digit numbers to 10, 100 or 1000, using a number line to support or using place value understanding of looking at the digit in the place to the right of the multiple being rounded to. <b>Can the children identify the multiples of 10, 100 and 1000 that a 4-digit number is between? Can they identify which digit to focus on in order to round to either 10, 100 or 1000?</b></p>	
	<p><b>Cut the Wire:</b> Using the corresponding slides on the <a href="#">Lesson Presentation</a>, the children practise rounding 4-digit numbers to 10, 100 or 1000 without using a number line. <b>Can the children identify which digits round up and which digits round down?</b></p>	
	<p><b>Secret Agent Game:</b> Children complete the <a href="#">Secret Agent Rounding Game</a> to demonstrate they can round 4-digit numbers to the nearest 10, 100 and 1000. They use dice and counters to move around the game board. Then they round the number that they land on to the nearest 10, 100 and 1000 using the recording sheet.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>Use the blank number line to support rounding 4-digit numbers to the nearest 10, 100 and 1000.</p> </div> <div style="text-align: center;"> <p>Round 4-digit numbers to the nearest 10, 100 and 1000.</p> </div> <div style="text-align: center;"> <p>As an extra challenge, identify the smallest or largest 4-digit number that will round to the multiple of 1000 that the number they landed on has rounded to.</p> </div> </div>	

	<p><b>Diving into Mastery:</b> Schools using a mastery approach may prefer to use the following as an alternative activity. 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.</p> <p> Children complete fluency questions involving rounding 4-digit numbers to the nearest 10, 100 and 1000.</p> <p> Children answer reasoning questions involving rounding 4-digit numbers to the nearest 10, 100 and 1000.</p> <p> Children work individually or collaboratively on problem-solving questions rounding 4-digit numbers to the nearest 10, 100 and 1000.</p>	
	<p><b>Training Room:</b> Using the corresponding slide on the <a href="#">Lesson Presentation</a>, the children practise rounding 4-digit numbers to 10, 100 or 1000 without using a number line. <b>Can the children identify which digits round up and which digits round down?</b></p>	

**Exploreit**  
**Learnit:** Children will find this visually exciting [Knowledge Organiser](#) a useful tool to support their understanding of place value.  
**Playit:** Children play this exciting [Numbers Game](#).  
**Throwit:** Children throw a ball and measure the distance. They round the distance to the nearest 10cm or 100cm.  
**Makeit:** Children create and play their own rounding game.



# Maths

## Number and Place Value

# Rounding 4-Digit Numbers to 10, 100 and 1000



## **Aim**

- To round 4-digit numbers to the nearest 10, 100 and 1000.

## **Success Criteria**

- I can identify the multiples of 10, 100 and 1000 that a 4-digit number is between.
- I can identify which digit to focus on in order to round to either 10, 100 or 1000.
- I can identify which digits round up and which digits round down.

# Remember It



These sequences count forwards or backwards in steps of 10, 100 or 1000.

What are the next 5 numbers in each sequence?

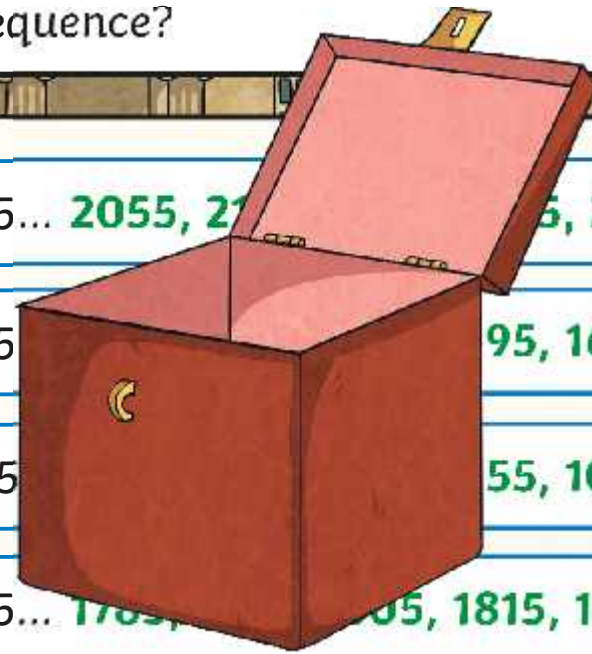


1. 1755, 1855, 1955... 2055, 2155, 2255, 2355, 2455

2. 1755, 1745, 1735... 1725, 1715, 1705, 1695, 1685

3. 1755, 1655, 1555... 1455, 1355, 1255, 1155, 1055

4. 1755, 1765, 1775... 1785, 1795, 1805, 1815, 1825



# Secret Agent Hideout

Welcome to Spy HQ! Today, our training will be on rounding numbers.



# Secret Agent Hideout



The rule for identifying the digit to focus on is to look at the digit in the place before the value we are rounding to.

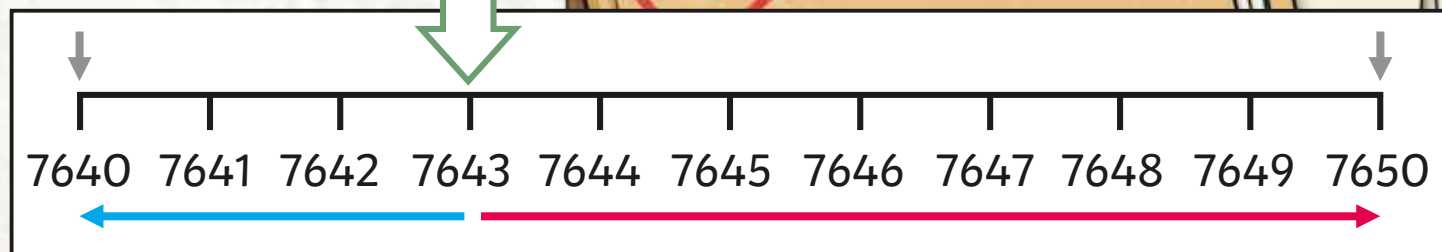


# Secret Agent Hideout

To round 7643 to the nearest 10, we can use a number line to identify if this number is closest to the previous multiple of 10 or the next multiple of 10.

Thousands	Hundreds	Tens	Ones
7	6	4	3

7643 rounded to the nearest 10 is 7640.



# Secret Agent Hideout

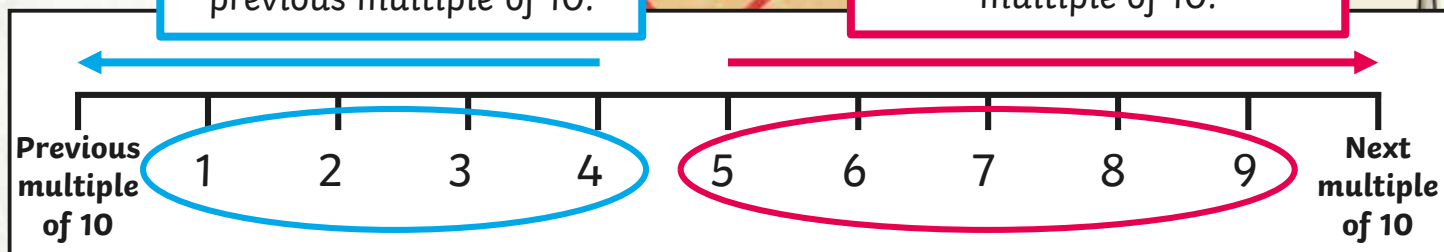
To round 7643 to the nearest 10, we can look at the digit in the place to the right of the tens which is the ones.

Thousands	Hundreds	Tens	Ones
7	6	4	3

7643 rounds down to 7640.

Any number with **less than 5** ones **rounds down** to the previous multiple of 10.

Any number with **5 or more** ones **rounds up** to the next multiple of 10.



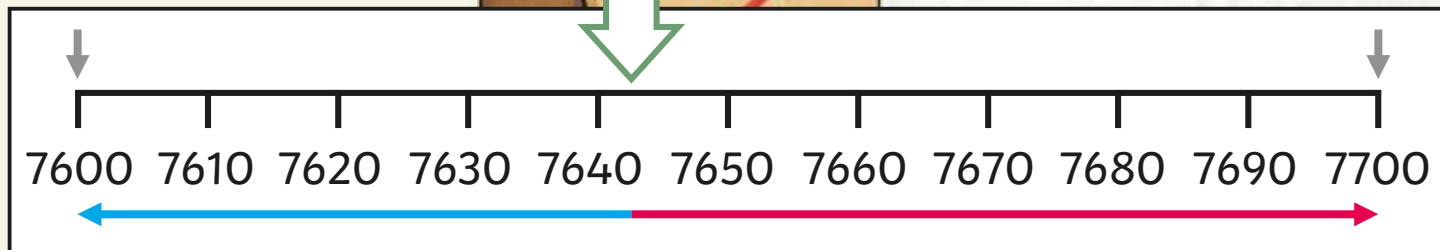
# Secret Agent Hideout

Thousands	Hundreds	Tens	Ones
7	6	4	3

7643 rounded to the nearest 100 is 7600.

7643

To round 7643 to the nearest 100, we can use a number line to identify if this number is closest to the previous multiple of 100 or the next multiple of 100.



# Secret Agent Hideout

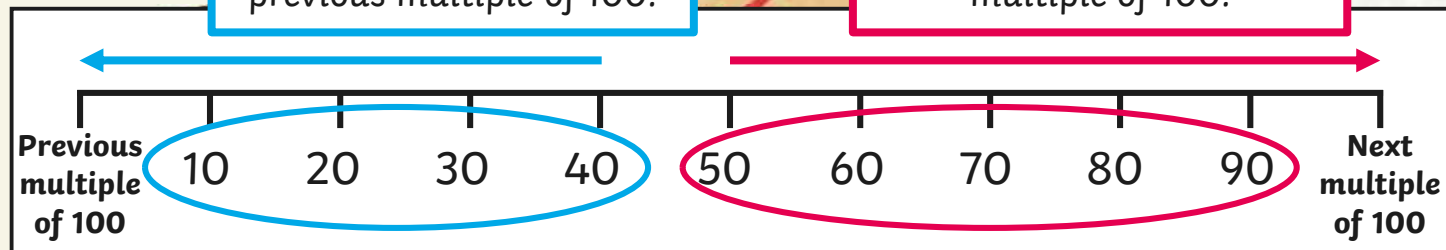
Thousands	Hundreds	Tens	Ones
7	6	4	3



7643 rounds down to 7640.

Any number with **less than 5 tens rounds down** to the previous multiple of 100.

Any number with **5 or more tens rounds up** to the next multiple of 100.



To round 7643 to the nearest 100, we can look at the digit in the place to the right of the hundreds which is the tens.

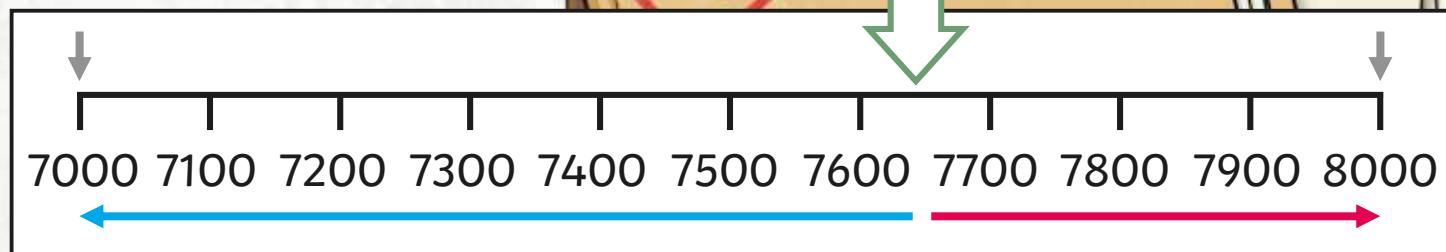
# Secret Agent Hideout

To round 7643 to the nearest 1000, we can use a number line to identify if this number is closest to the previous multiple of 1000 or the next multiple of 1000.

Thousands	Hundreds	Tens	Ones
7	6	4	3

7643 rounded to the nearest 1000 is 8000.

7643



# Secret Agent Hideout

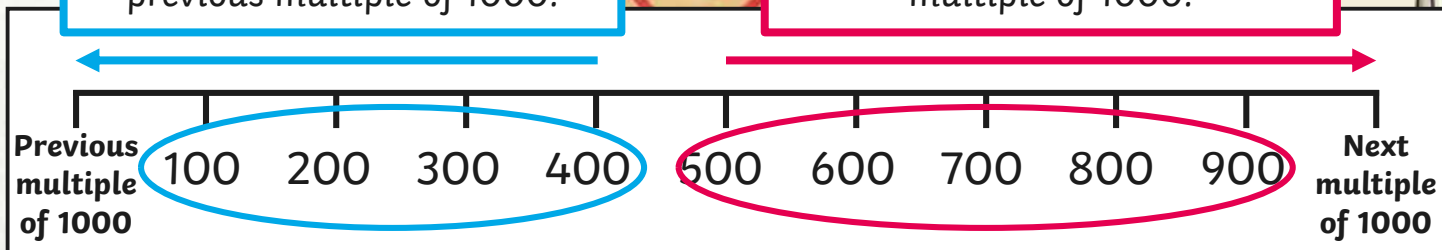
To round 7643 to the nearest 1000, we can look at the digit in the place to the right of the thousands which is the hundreds.

Thousands	Hundreds	Tens	Ones
7	6	4	3

7643 rounds up to 8000.

Any number with **less than 5** hundreds **rounds down** to the previous multiple of 1000.

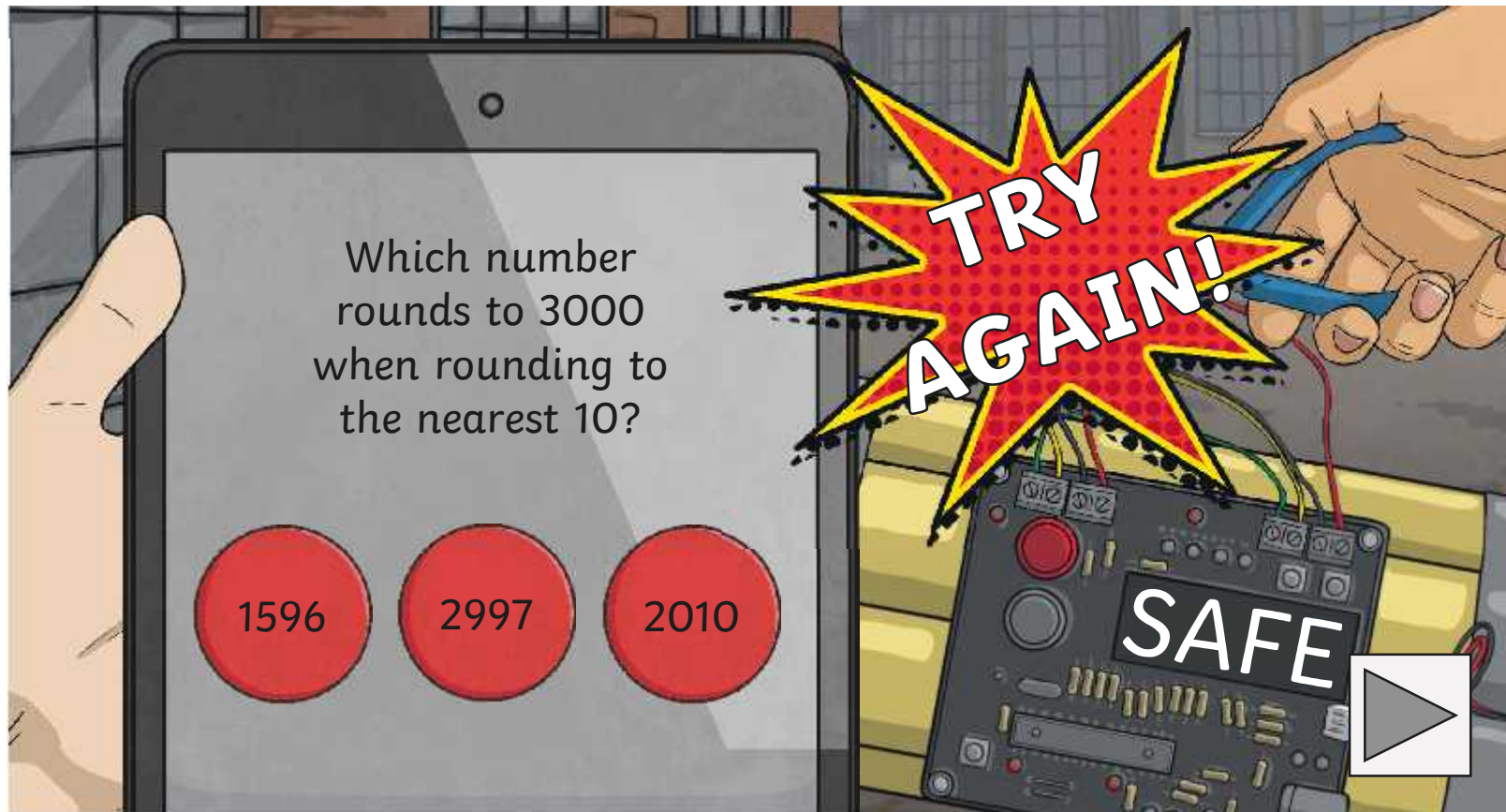
Any number with **5 or more** hundreds **rounds up** to the next multiple of 1000.



# Cut the Wire



Select the correct answer to defuse the device.



# Cut the Wire



Select the correct answer to defuse the device.

Which multiple of 100 will 8574 round to?

8500      8600      8400

**TRY AGAIN!**

**SAFE**

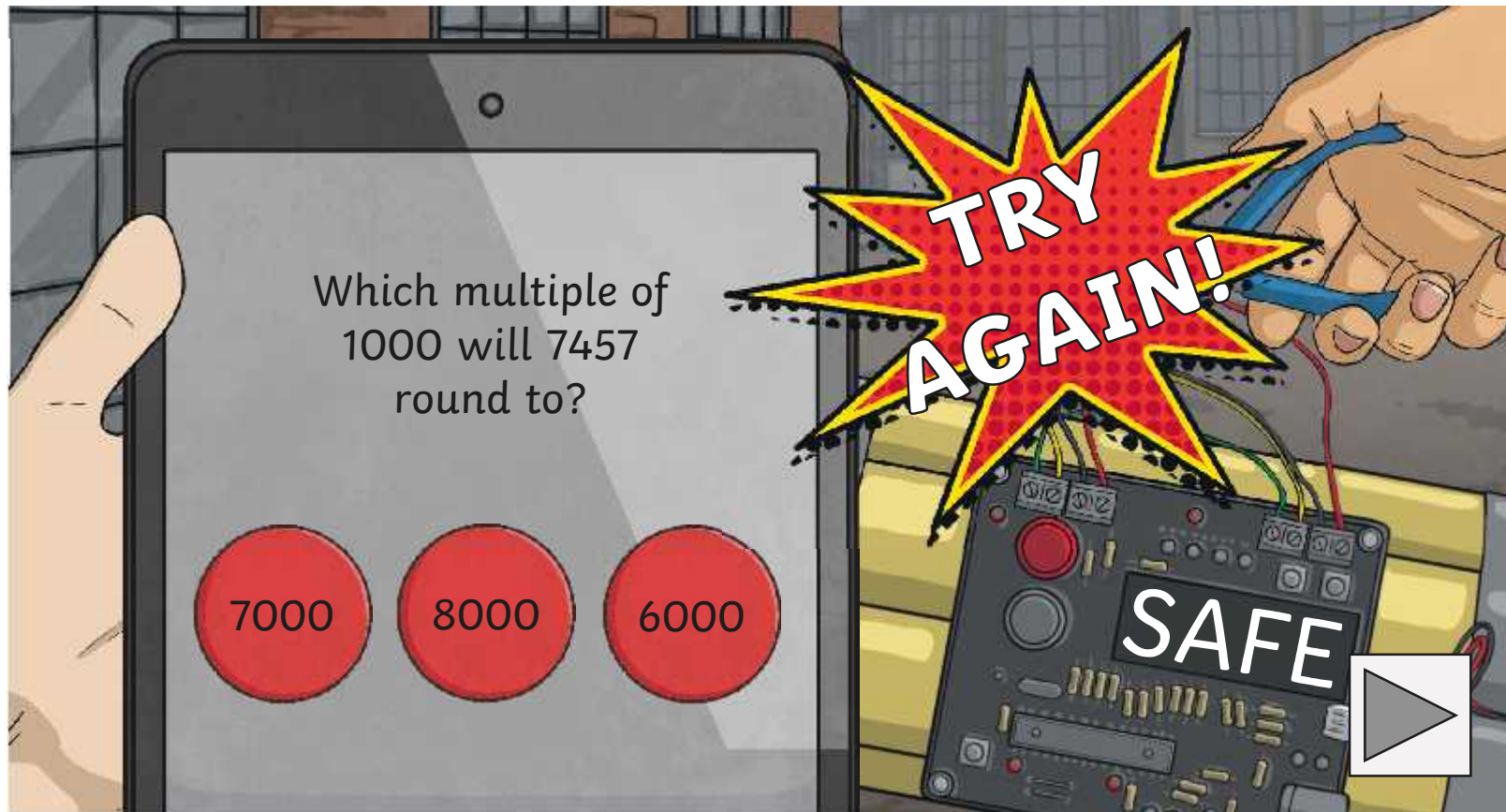
▶



# Cut the Wire



Select the correct answer to defuse the device.



# Cut the Wire



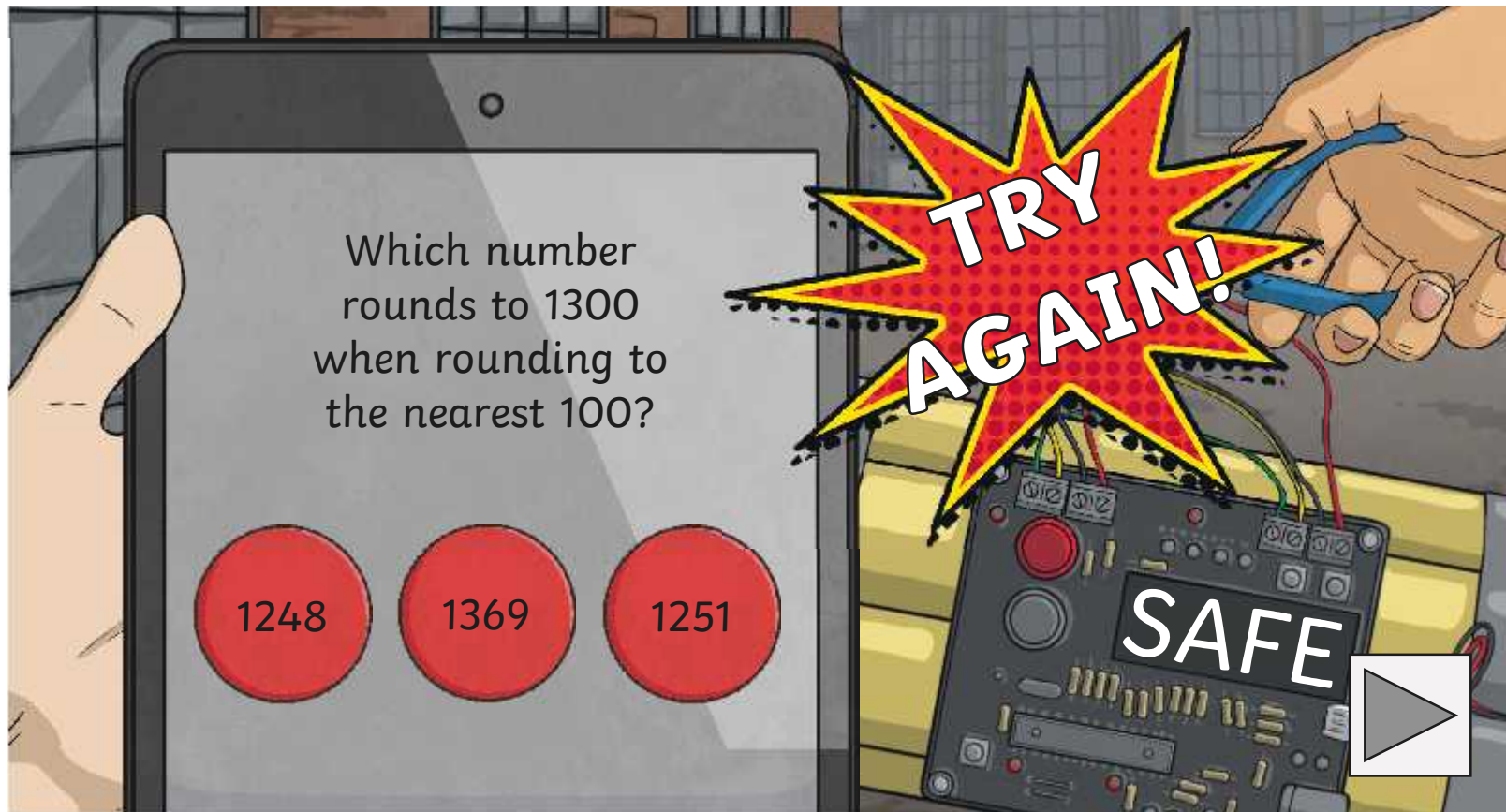
Select the correct answer to defuse the device.



# Cut the Wire



Select the correct answer to defuse the device.



# Secret Agent Game



**Rounding to 10, 100 or 1000**

Number rounded to:    Rounded to the nearest 10    Rounded to the nearest 100    Rounded to the nearest 1000

Start	6345	9486	6387	8356	3945	8055	7651
5938	5657	3897	2756	7564	3513	3684	
52	3557	8584	5578	4752	9992		
53	7403	1245	3847	5057	2548		
	5855	5957	9831				

Next multiple of 10

1 2 3 4 5 6 7 8 9

## Diving into Mastery

Dive in by completing your own activity!



2) Complete the table below to round each number to the nearest 100.

What each one is 100 away from (to round up)?	What each one is 100 away from (to round down)?
1,750	
4,857	
8,628	
9,778	


2) Round each number to the nearest 1,000 that it rounds to. Some numbers might round to the same 1,000 number.

10,011	10,000
84,321	80,000
1,500	1,000
150,100	150,000
4,383	4,000

4) Round each number to the nearest 100.

Number	Rounded to the Nearest 100

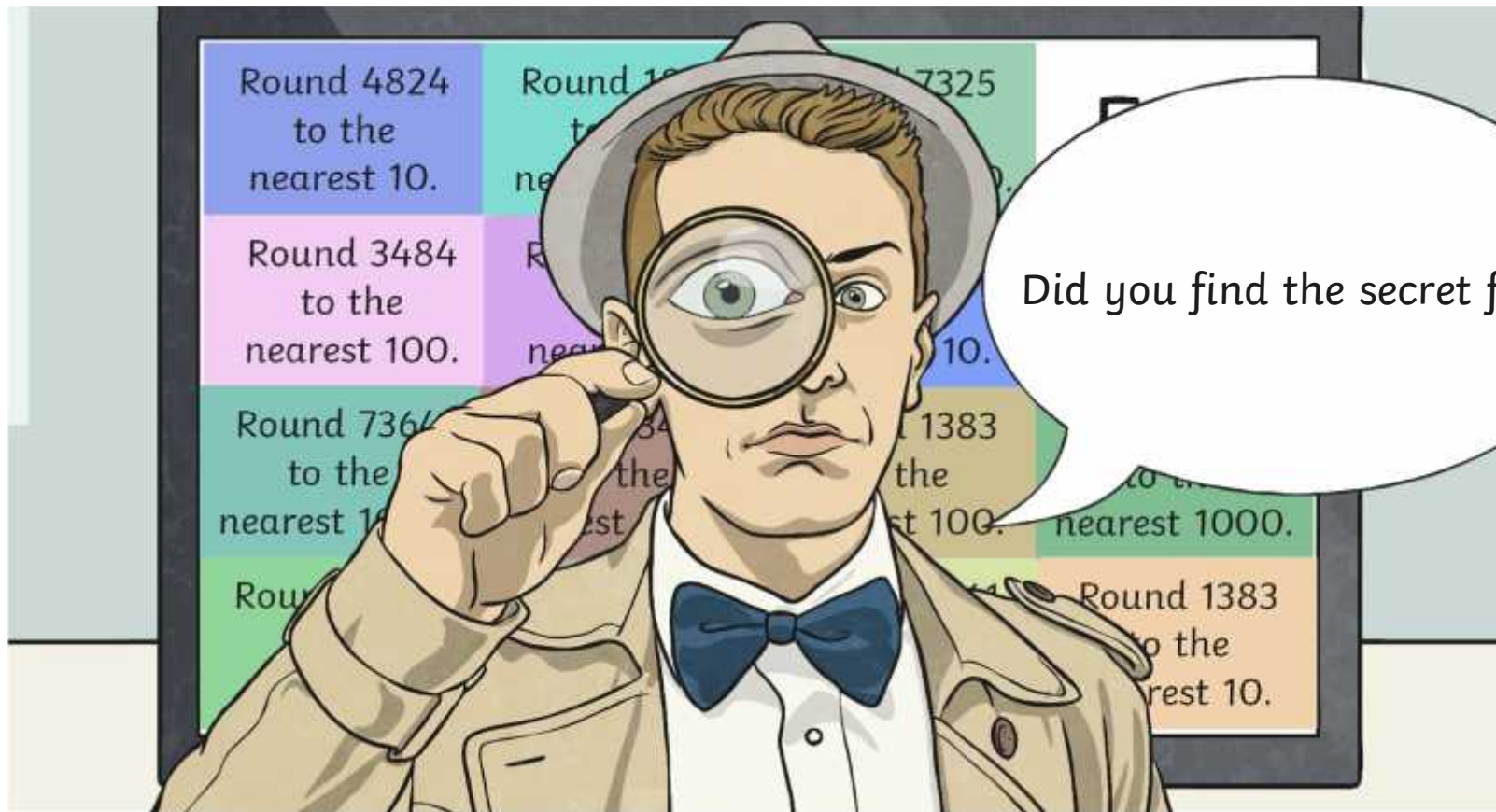
As the teacher, you worked out 1,234 + 5,678 =



# Training Room



When the teacher gives you a number, you have to round it to the nearest 10, 100, or 1000. If the answer is correct, you get a picture. If the answer is wrong, you get a picture.



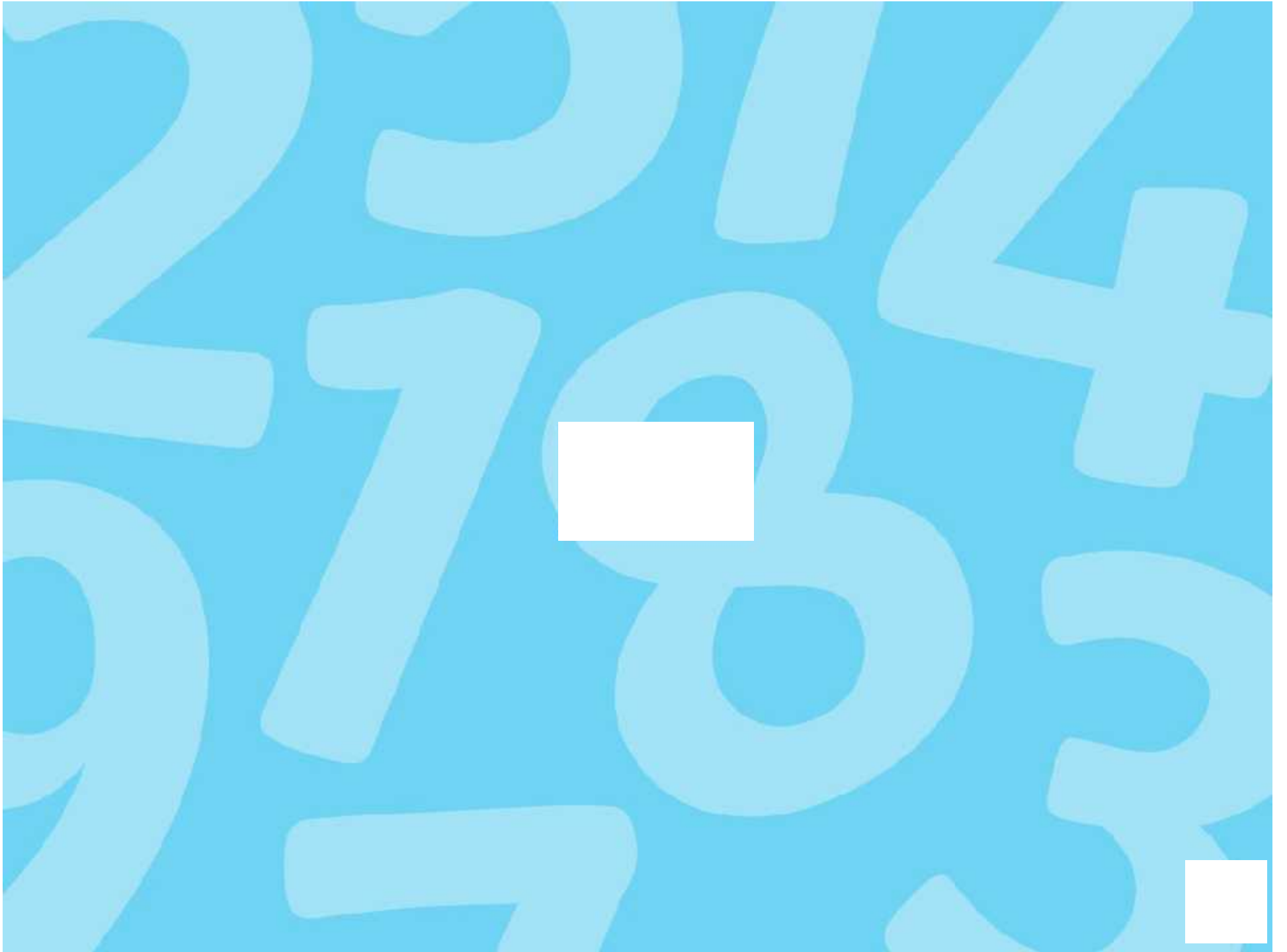
## Aim



- To round any number to the nearest 10, 100 or 1000.

## Success Criteria

- I can identify the values above and below a number.
- I can identify which digit to focus on when rounding to a given value.
- I can identify which digits to round up and which digits to round down.





Aim: To round 4-digit numbers to the nearest 10, 100 and 1000.				Date:					
				Delivered By:			Support:		
Success Criteria	Me	Friend	Teacher	T	PPA	S	I	AL	GP
I can identify the multiples of 10, 100 and 1000 that a 4-digit number is between.				Notes/Evidence					
I can identify which digit to focus on in order to round to either 10, 100 or 1000.									
I can identify which digits round up and which digits round down.									
Next Steps									
) _____									
) _____									

<b>T</b>	Teacher	<b>I</b>	Independent
<b>PPA</b>	Planning, Preparation and Assessment	<b>AL</b>	Adult Led
<b>S</b>	Supply	<b>GP</b>	Guided Practice

Aim: To round 4-digit numbers to the nearest 10, 100 and 1000.				Date:					
				Delivered By:			Support:		
Success Criteria	Me	Friend	Teacher	T	PPA	S	I	AL	GP
I can identify the multiples of 10, 100 and 1000 that a 4-digit number is between.				Notes/Evidence					
I can identify which digit to focus on in order to round to either 10, 100 or 1000.									
I can identify which digits round up and which digits round down.									
Next Steps									
) _____									
) _____									

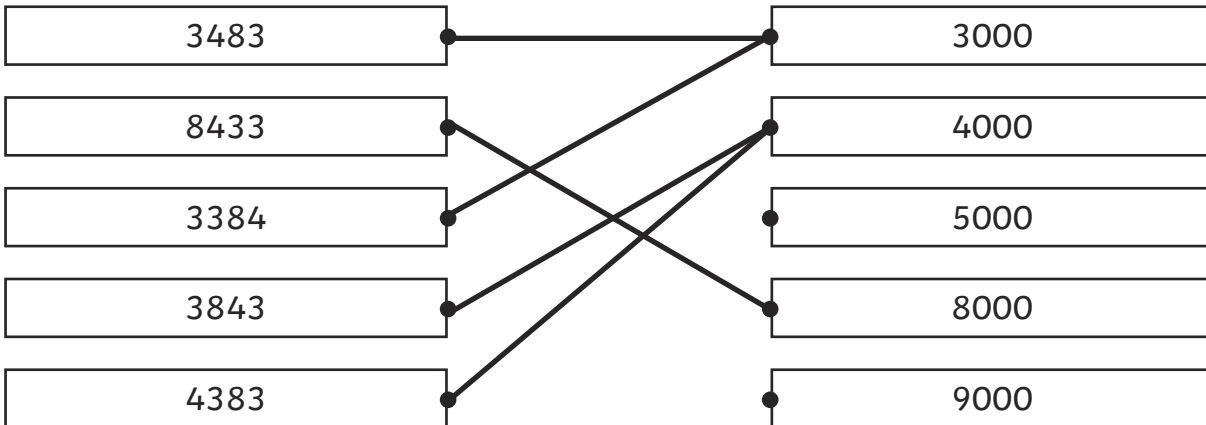
<b>T</b>	Teacher	<b>I</b>	Independent
<b>PPA</b>	Planning, Preparation and Assessment	<b>AL</b>	Adult Led
<b>S</b>	Supply	<b>GP</b>	Guided Practice



1)

	Which multiples of 100 does the number lie between?	Which multiple of 100 is it closer to?
<b>1286</b>	<b>1200 and 1300</b>	<b>1300</b>
<b>4852</b>	<b>4800 and 4900</b>	<b>4900</b>
<b>3348</b>	<b>3300 and 3400</b>	<b>3300</b>
<b>9178</b>	<b>9100 and 9200</b>	<b>9200</b>

2)



Number	Rounded to the Nearest 10
	<b>4330</b>
	<b>2350</b>
four thousand, five hundred and ninety-three	<b>4590</b>



1)

2700	<b>2650</b>
1560	<b>1564</b>
4000	<b>3500</b>
8400	<b>8449</b>

2) Agent Q could be correct. If the number was between 4950 and 5049, the number would round to 5000 to the nearest 100.



1) a) 8572

b) 2578

c) 5287, 5278

d) 8257, 8275

e) 2578, 2587, 2758, 2785, 2857, 2875

2) Children's answers will vary.



1) Complete the table below to round each number to the nearest 100.

	Which multiples of 100 does the number lie between?	Which multiple of 100 is it closer to?
1286		
4852		
3348		
9178		

2) Match each number to the nearest 1000 that it rounds to. Some numbers might match to the same 1000s number.

3483	3000
8433	4000
3384	5000
3843	8000
4383	9000

3) Round each number to the nearest 10.

Number	Rounded to the Nearest 10
four thousand, five hundred and ninety-three	





1) Identify the smallest or largest number that can be rounded to the given multiple of 10, 100 or 1000.

Smallest number rounded to the nearest 100. **2700**

Largest number rounded to the nearest 10. **1560**

Smallest number rounded to the nearest 1000. **4000**

Largest number rounded to the nearest 100. **8400**

2) Who do you agree with? Explain your answer.

**AGENT Q**

Rounded to the nearest 100, my number is 5000.

This must be a mistake. A 4-digit number rounded to the nearest 100 can't be a multiple of 1000.

**AGENT Z**

---

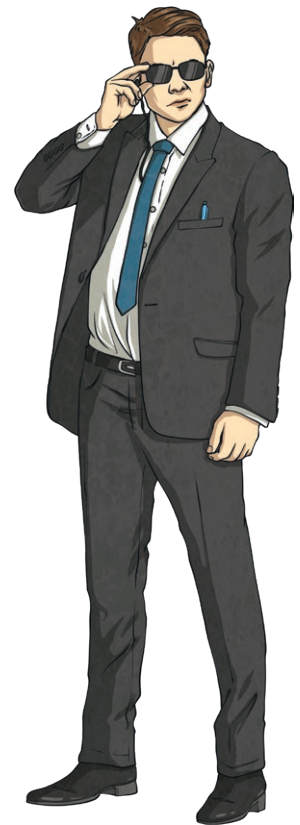
---

---



1) Use the digit cards to make different 4-digit numbers that match the statements.

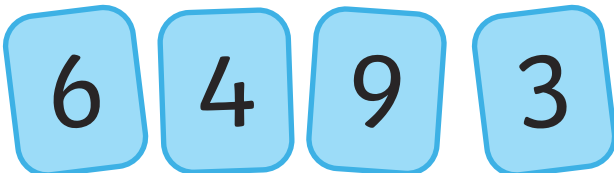
Use each digit card once in each number.



a)	To the nearest 100, this number rounds to 8600.	
b)	To the nearest 10, this number rounds to 2580.	
c)	To the nearest 1000, this number rounds to 5000.	
d)	To the nearest 100, this number rounds to 8300.	
e)	To the nearest 1000, this number rounds to 3000.	

2) Here is a different set of digit cards.

Create 4-digit numbers and write your own rounding statements to match them. Can your partner solve them?




---



---



---





1) Complete the table below to round each number to the nearest 100.

	Which multiples of 100 does the number lie between?	Which multiple of 100 is it closer to?
1286		
4852		
3348		
9178		

2) Match each number to the nearest 1000 that it rounds to. Some numbers might match to the same 1000s number.

3483	3000
8433	4000
3384	5000
3843	8000
4383	9000

3) Round each number to the nearest 10.

Number
four thousand, five hundred and ninety-three



1) Complete the table below to round each number to the nearest 100.

	Which multiples of 100 does the number lie between?	Which multiple of 100 is it closer to?
1286		
4852		
3348		
9178		

2) Match each number to the nearest 1000 that it rounds to. Some numbers might match to the same 1000s number.

3483	3000
8433	4000
3384	5000
3843	8000
4383	9000

3) Round each number to the nearest 10.

Number
four thousand, five hundred and ninety-three



- 1) Identify the smallest or largest number that can be rounded to the given multiple of 10, 100 or 1000.



Smallest number rounded to the nearest 100. **2700**



Largest number rounded to the nearest 10. **1560**



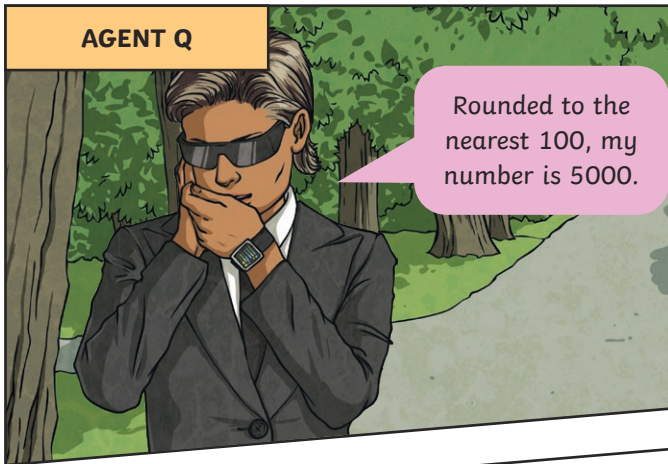
Smallest number rounded to the nearest 1000. **4000**



Largest number rounded to the nearest 100. **8400**



- 2) Who do you agree with? Explain your answer.



- 1) Identify the smallest or largest number that can be rounded to the given multiple of 10, 100 or 1000.



Smallest number rounded to the nearest 100. **2700**



Largest number rounded to the nearest 10. **1560**



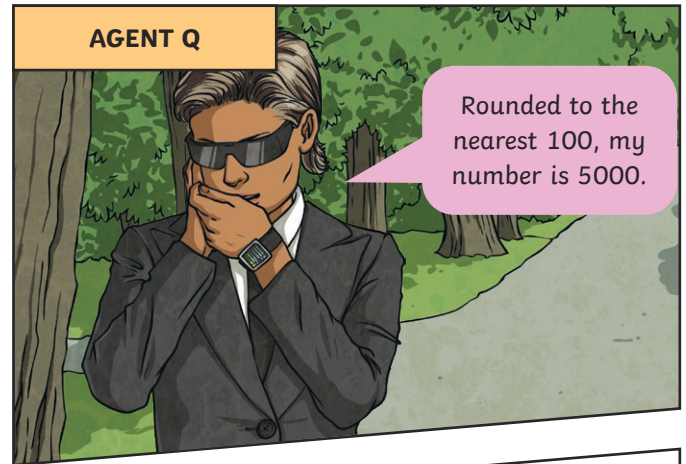
Smallest number rounded to the nearest 1000. **4000**



Largest number rounded to the nearest 100. **8400**



- 2) Who do you agree with? Explain your answer.





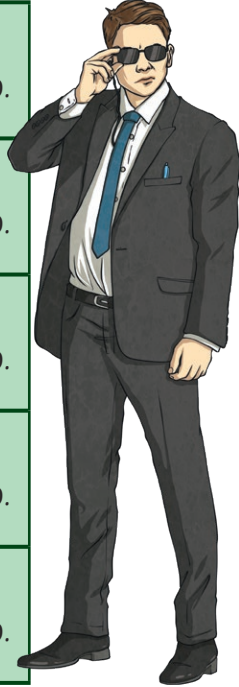
- 1) Use the digit cards to make different 4-digit numbers that match the statements.



Use each digit card once in each number.

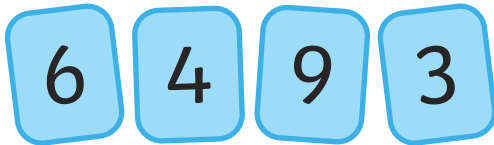


- a) To the nearest 100, this number rounds to 8600.
- b) To the nearest 10, this number rounds to 2580.
- c) To the nearest 1000, this number rounds to 5000.
- d) To the nearest 100, this number rounds to 8300.
- e) To the nearest 1000, this number rounds to 3000.



- 2) Here is a different set of digit cards.

Create 4-digit numbers and write your own rounding statements to match them. Can your partner solve them?



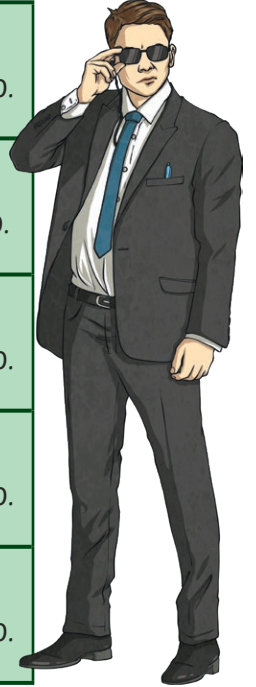
- 1) Use the digit cards to make different 4-digit numbers that match the statements.



Use each digit card once in each number.

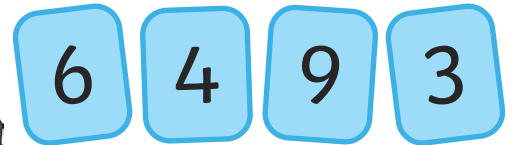


- a) To the nearest 100, this number rounds to 8600.
- b) To the nearest 10, this number rounds to 2580.
- c) To the nearest 1000, this number rounds to 5000.
- d) To the nearest 100, this number rounds to 8300.
- e) To the nearest 1000, this number rounds to 3000.



- 2) Here is a different set of digit cards.

Create 4-digit numbers and write your own rounding statements to match them. Can your partner solve them?



# Rounding to 10, 100 or 1000

The secret documents

Start

5938

6345

9486

8356

6387

3945

3513

8055

7651

2756

5657

3897

7564

3684

7652

3557

8584

5578

4752

9992

5057

2548

9853

7403

1245

3847

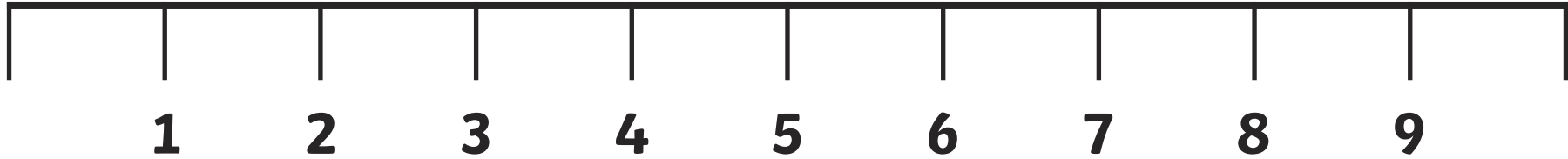
9831

5855

5957

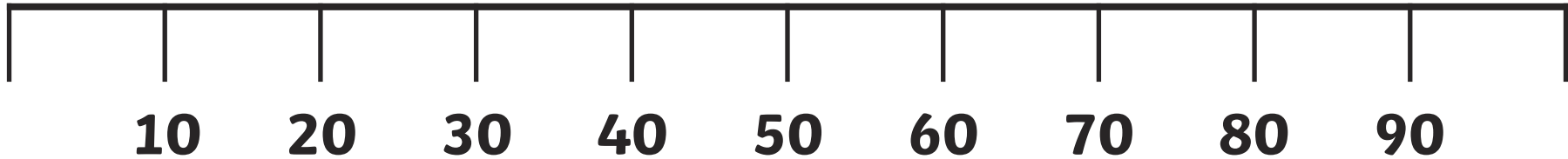
**Previous  
multiple  
of 10**

**Next  
multiple  
of 10**



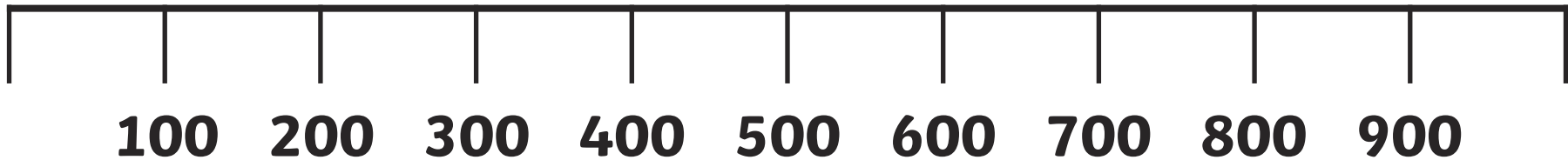
**Previous  
multiple  
of 100**

**Next  
multiple  
of 100**



**Previous  
multiple  
of 1000**

**Next  
multiple  
of 1000**



<b>Number landed on:</b>	<b>Rounded to the nearest 10:</b>	<b>Rounded to the nearest 100:</b>	<b>Rounded to the nearest 1000:</b>

<b>Number landed on:</b>	<b>Rounded to the nearest 10:</b>	<b>Rounded to the nearest 100:</b>	<b>Rounded to the nearest 1000:</b>

Number and Place Value | Rounding 4-Digit Numbers to 10, 100 and 1000

To round 4-digit numbers to the nearest 10, 100 and 1000.		
I can identify the multiples of 10, 100 and 1000 that a 4-digit number is between.		
I can identify which digit to focus on in order to round to either 10, 100 or 1000.		
I can identify which digits round up and which digits round down.		

Number and Place Value | Rounding 4-Digit Numbers to 10, 100 and 1000

To round 4-digit numbers to the nearest 10, 100 and 1000.		
I can identify the multiples of 10, 100 and 1000 that a 4-digit number is between.		
I can identify which digit to focus on in order to round to either 10, 100 or 1000.		
I can identify which digits round up and which digits round down.		

Number and Place Value | Rounding 4-Digit Numbers to 10, 100 and 1000

To round 4-digit numbers to the nearest 10, 100 and 1000.		
I can identify the multiples of 10, 100 and 1000 that a 4-digit number is between.		
I can identify which digit to focus on in order to round to either 10, 100 or 1000.		
I can identify which digits round up and which digits round down.		

Number and Place Value | Rounding 4-Digit Numbers to 10, 100 and 1000

To round 4-digit numbers to the nearest 10, 100 and 1000.		
I can identify the multiples of 10, 100 and 1000 that a 4-digit number is between.		
I can identify which digit to focus on in order to round to either 10, 100 or 1000.		
I can identify which digits round up and which digits round down.		

Number and Place Value | Rounding 4-Digit Numbers to 10, 100 and 1000

To round 4-digit numbers to the nearest 10, 100 and 1000.		
I can identify the multiples of 10, 100 and 1000 that a 4-digit number is between.		
I can identify which digit to focus on in order to round to either 10, 100 or 1000.		
I can identify which digits round up and which digits round down.		

Number and Place Value | Rounding 4-Digit Numbers to 10, 100 and 1000

To round 4-digit numbers to the nearest 10, 100 and 1000.		
I can identify the multiples of 10, 100 and 1000 that a 4-digit number is between.		
I can identify which digit to focus on in order to round to either 10, 100 or 1000.		
I can identify which digits round up and which digits round down.		

Number and Place Value | Rounding 4-Digit Numbers to 10, 100 and 1000

To round 4-digit numbers to the nearest 10, 100 and 1000.		
I can identify the multiples of 10, 100 and 1000 that a 4-digit number is between.		
I can identify which digit to focus on in order to round to either 10, 100 or 1000.		
I can identify which digits round up and which digits round down.		

Number and Place Value | Rounding 4-Digit Numbers to 10, 100 and 1000

To round 4-digit numbers to the nearest 10, 100 and 1000.		
I can identify the multiples of 10, 100 and 1000 that a 4-digit number is between.		
I can identify which digit to focus on in order to round to either 10, 100 or 1000.		
I can identify which digits round up and which digits round down.		