

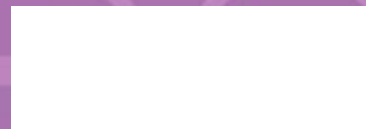


# Maths

Addition and Subtraction

**Need a coherently planned sequence of lessons to complement this resource?**

# Add and Subtract 9



# Aim

- To add and subtract 9 from any 2-digit number.

# Success Criteria

- I can add 9.
- I can subtract 9.
- I can spot a pattern.
- I can explain the pattern and use it to help me.

# Remember It



Turn over 2 cards and make a 2-digit number.

Add 10 to your number. Subtract 10 from your number.

Write a calculation each time.

Repeat a few times.



I made 74.

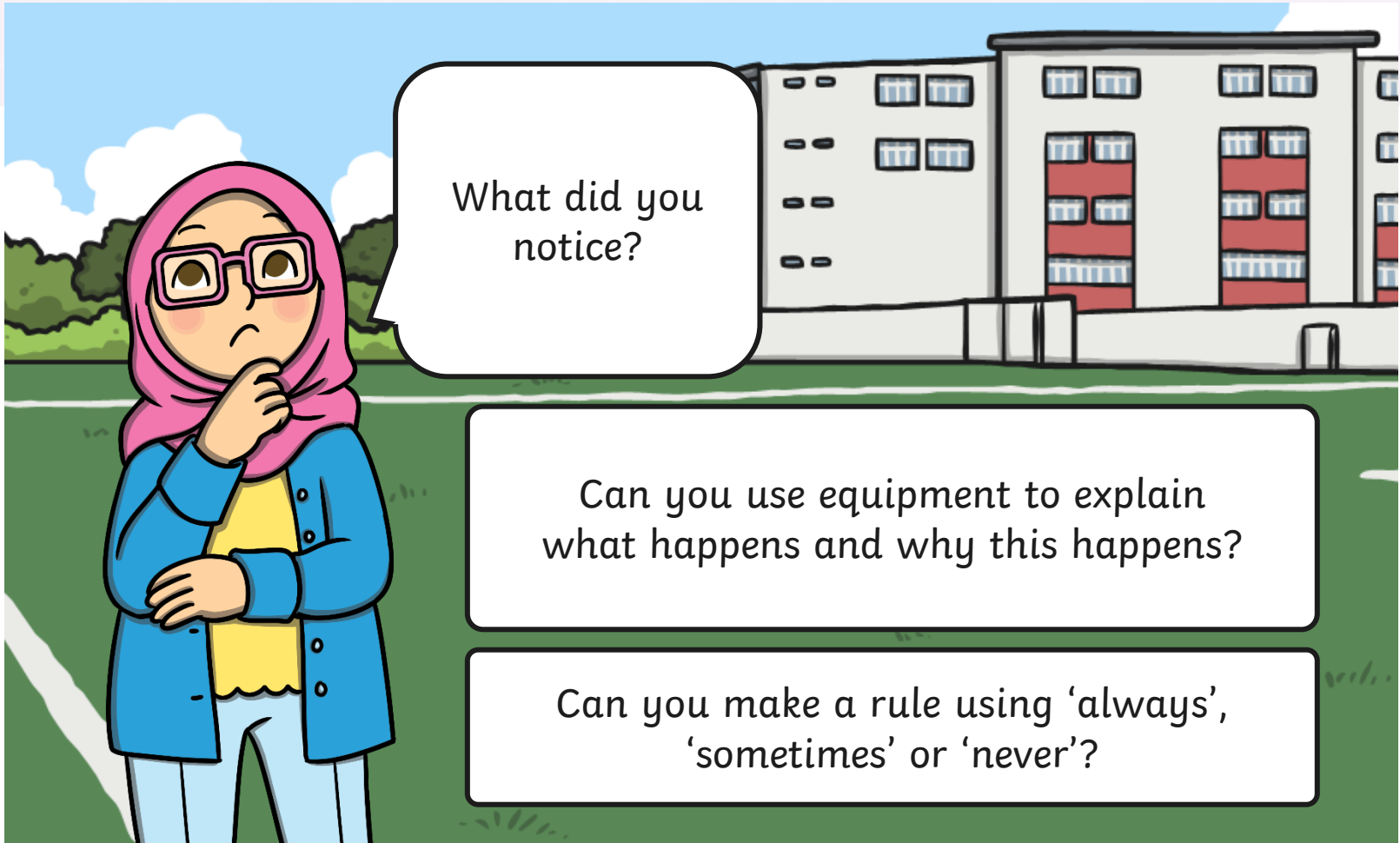
7

4

$$74 + 10 = 84$$

$$74 - 10 = 64$$

# Remember It



What did you notice?

Can you use equipment to explain what happens and why this happens?

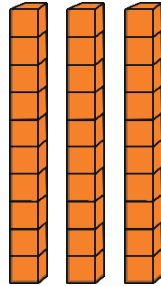
Can you make a rule using 'always', 'sometimes' or 'never'?

# Adding Ten



$$21 + 10 = 31$$

Tens



3

Ones



1

What happened to the tens column? What happened to the ones column? Why did this happen?

# Adding Nine



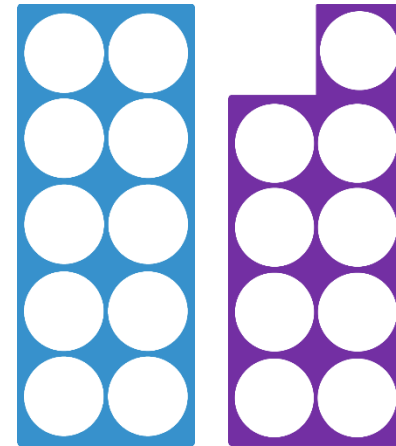
What do you think will happen when we add 9?

Compare 9 to 10.

What do you notice?



I can see that 9 is one less than 10, but how will that help me add 9?





# Adding Nine



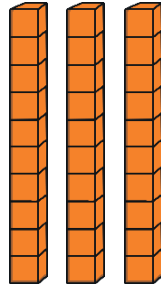
I need to add 9 so first I add 10.

$$23 + 9 = 32$$

9 is one less than 10 so now I need to take 1 away.

Tens

Ones



3



3

What happened in the tens column? What happened in the ones column? Why did this happen?

# Adding Nine



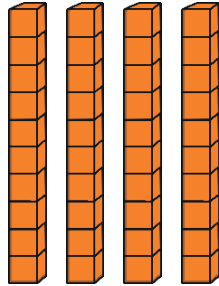
I need to add 9 so first I add 10.

$$35 + 9 = 44$$

9 is one less than 10 so now I need to take 1 away.

Tens

Ones

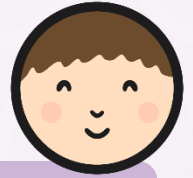


4

5

What happened in the tens column? What happened in the ones column? Why did this happen?

# Practise



Choose a colour and complete each calculation.

$24 + 9 = 33$

$22 + 9 = 31$

$9 + 9 = 18$

$34 + 9 = 43$

$23 + 9 = 32$

$18 + 9 = 27$

$44 + 9 = 53$

$24 + 9 = 33$

$27 + 9 = 36$

$54 + 9 = 63$

$25 + 9 = 34$

$36 + 9 = 45$

$64 + 9 = 73$

$26 + 9 = 35$

$45 + 9 = 54$

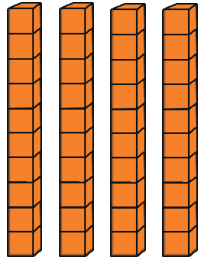
**What did you notice? Why does this happen?**

# Subtracting Ten



$$40 - 10 = 30$$

Tens



4

Ones

0

What happened to the tens column? What happened to the ones column? Why did this happen?

# Subtracting Nine

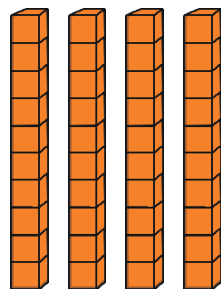


I need to subtract 9 so first I subtract 10.

$$45 - 9 = 36$$

I have taken away 1 too many so now I need to add one back on.

Tens



4

Ones



6

What happened in the tens column? What happened in the ones column? Why did this happen?

# Subtracting Nine



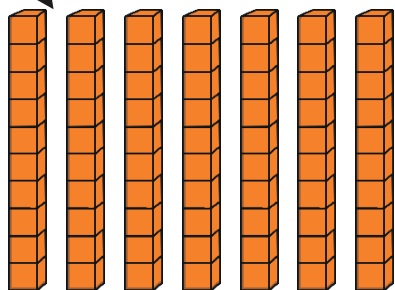
I need to subtract 9 so first I subtract 10.

$$74 - 9 = 65$$

I have taken away 1 too many so now I need to add one back on.

Tens

Ones



7



5

What happened in the tens column? What happened in the ones column? Why did this happen?

# Space Race

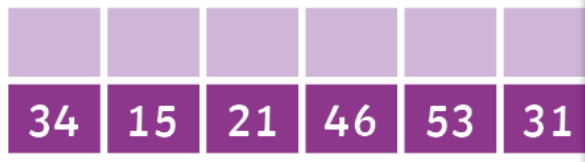
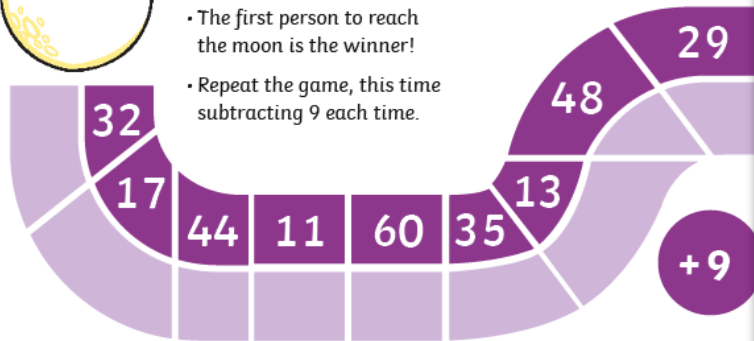


## Adding and Subtracting 9 Space

### Adding and Subtracting 9 Spa

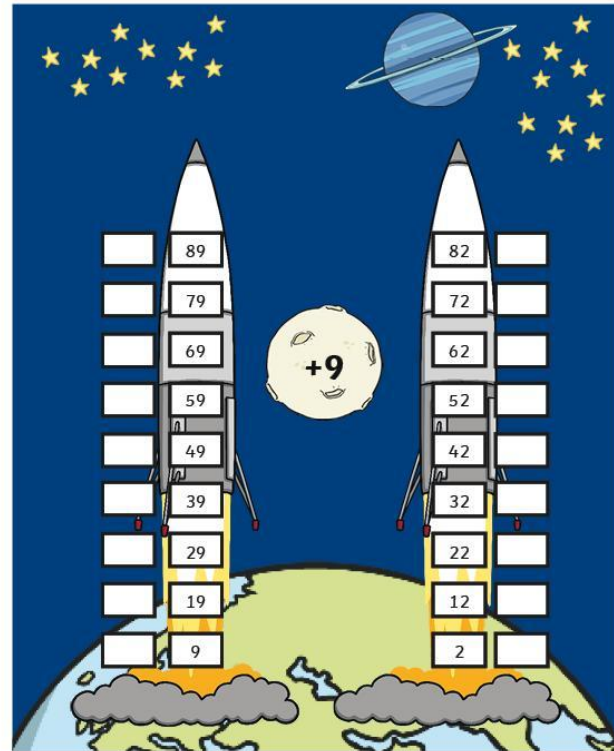


- Spin the spinner and move your counter that number of p
- Add 9 to the number you land on. Use equipment to explain
- thinking to your partner.
- The first person to reach the moon is the winner!
- Repeat the game, this time subtracting 9 each time.



## Race to Space

- How to
- Each p
  - move t
  - Add 9
  - The fir
  - Now, a
  - Discus
  - Use eq



## Diving into Mastery

Dive in by completing your own activity!



**Add and Subtract 9**

Start on 0. Keep adding 9 to get home.

0 19 36 47  
9 27 45 56  
17 18 38 54

Draw a line to show the way. 63

Keep subtracting 9 to blast off.

90	81	72	63	54
45				

TOP TIP: Take away 10 then add 1.

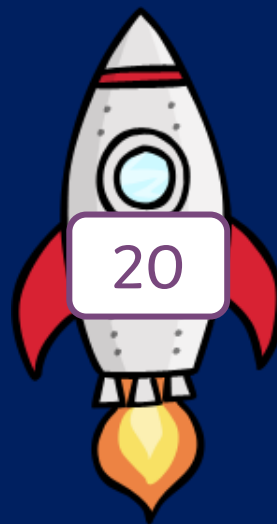
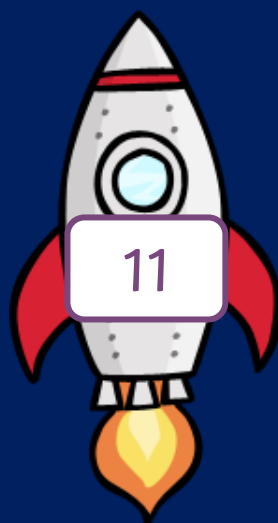
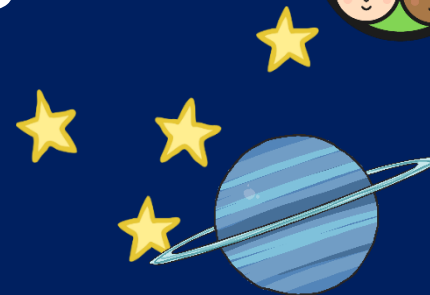




# Space Spotting



Do the numbers differ by 9?  
Explain how you know.

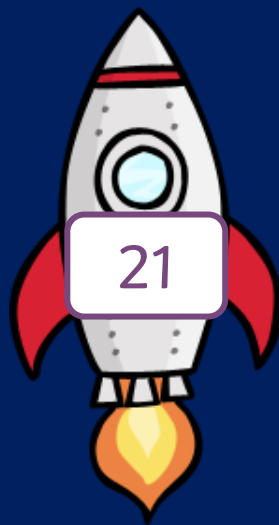
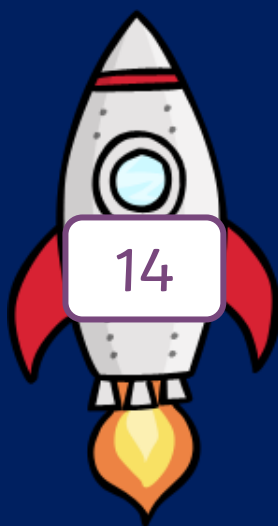
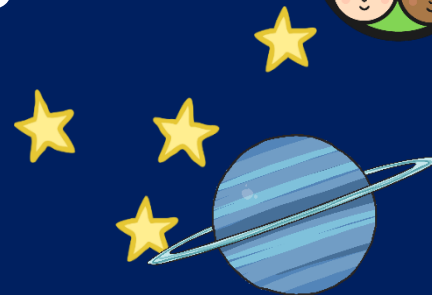




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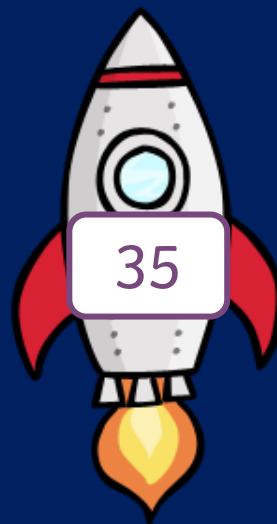
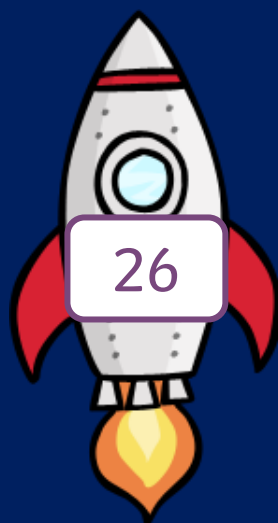
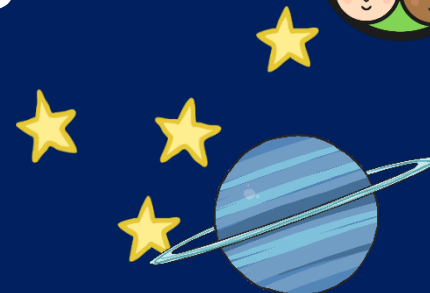




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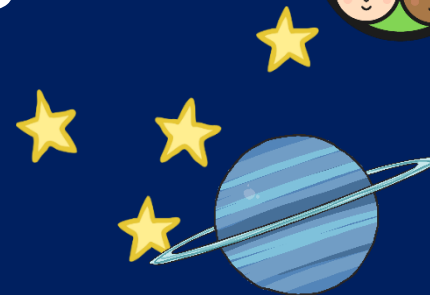




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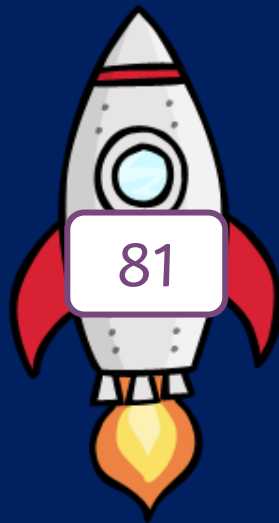
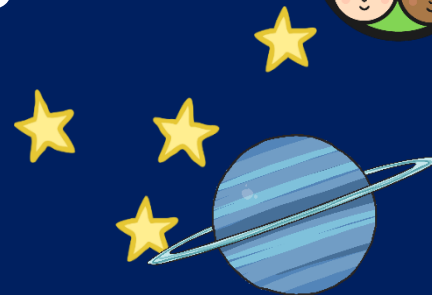




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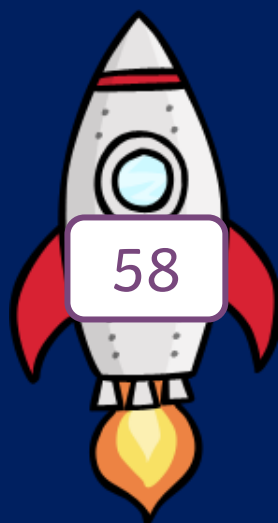
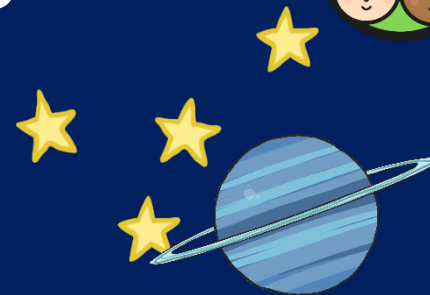




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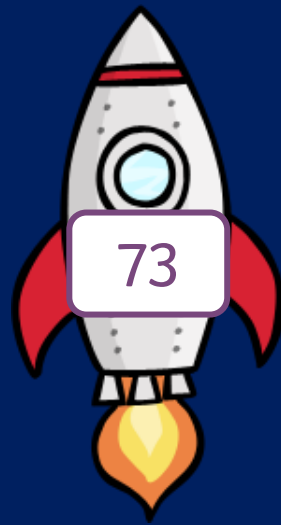
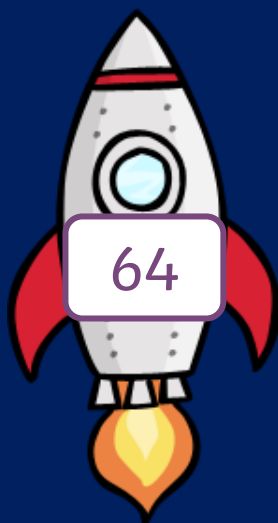
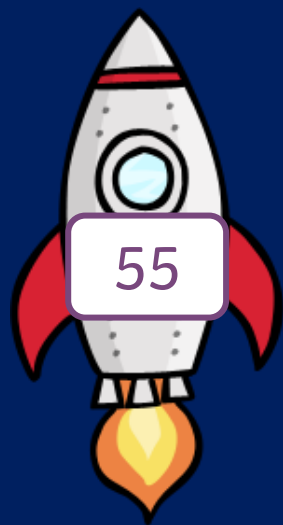
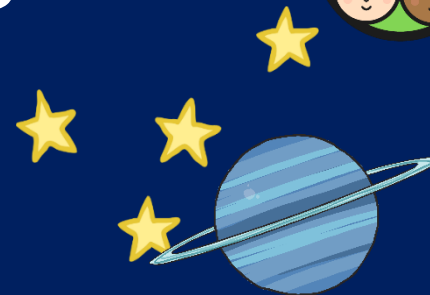




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