

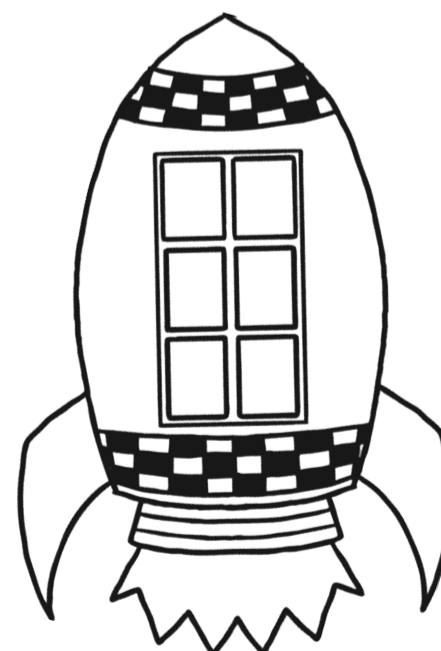
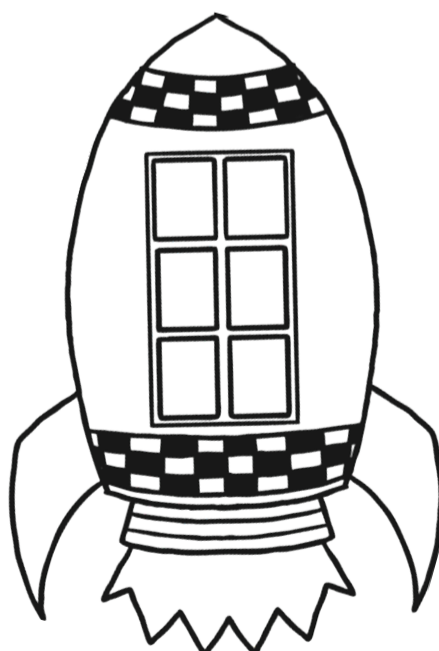
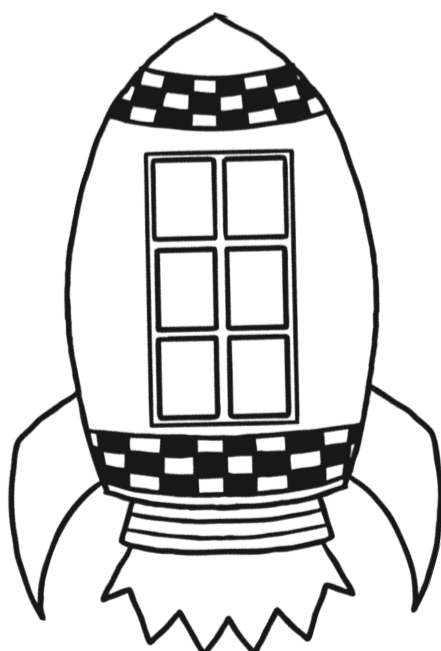
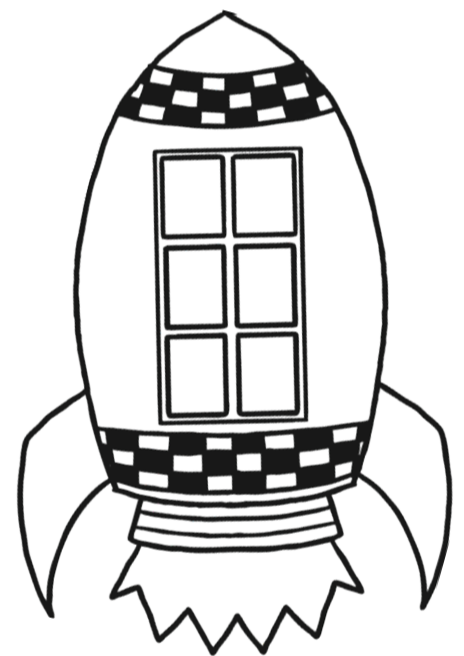
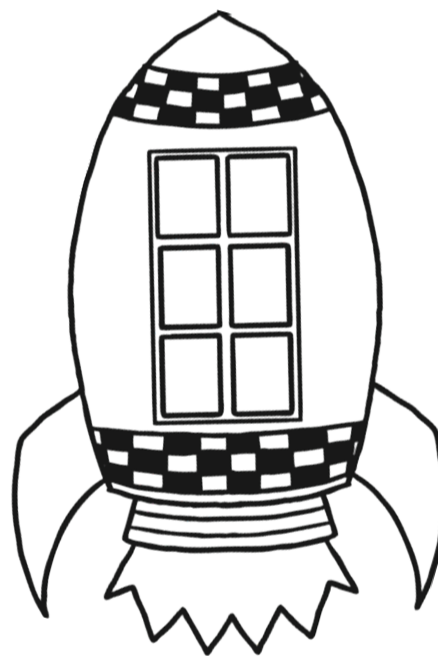
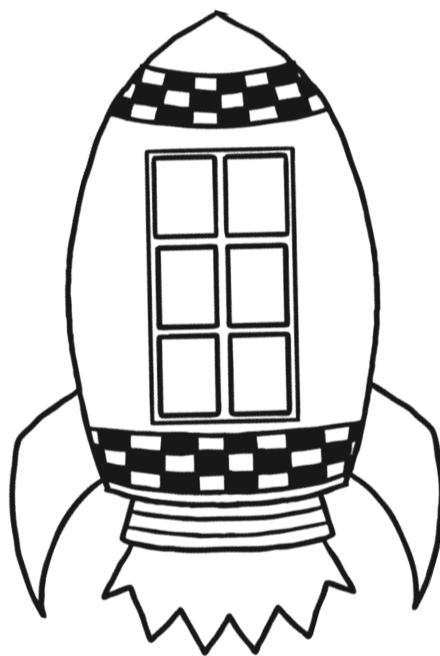
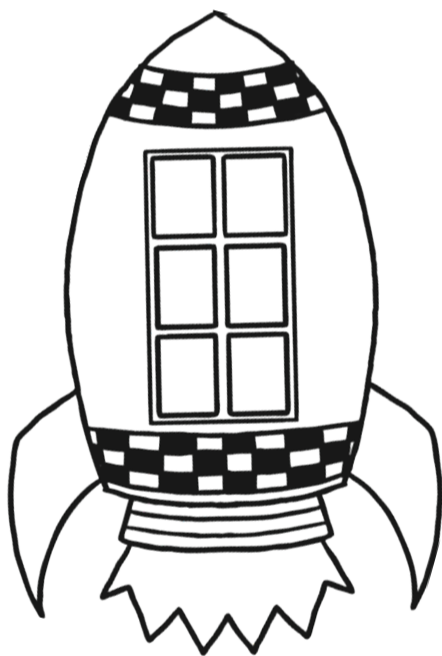
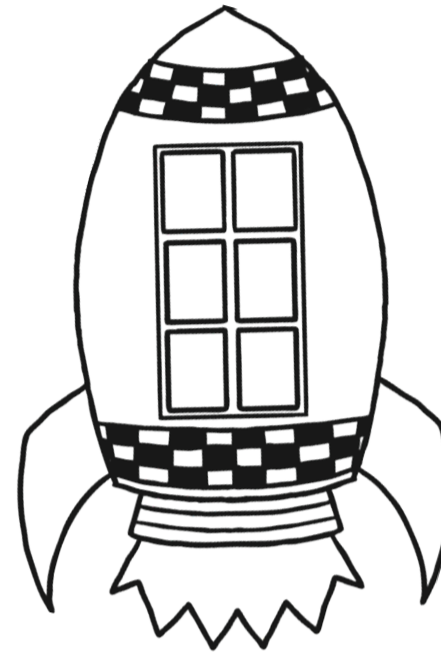
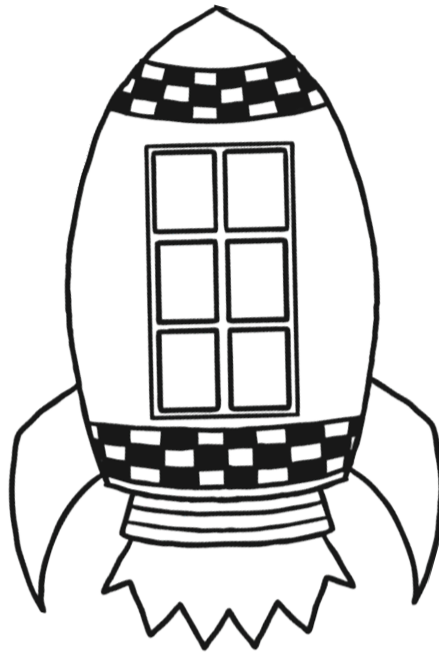
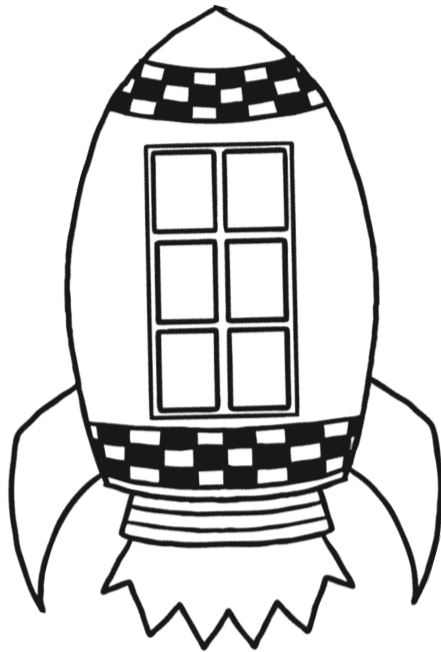


# Finding Half

I can find  $\frac{1}{2}$  in different ways.



Colour  $\frac{1}{2}$  of the windows green.



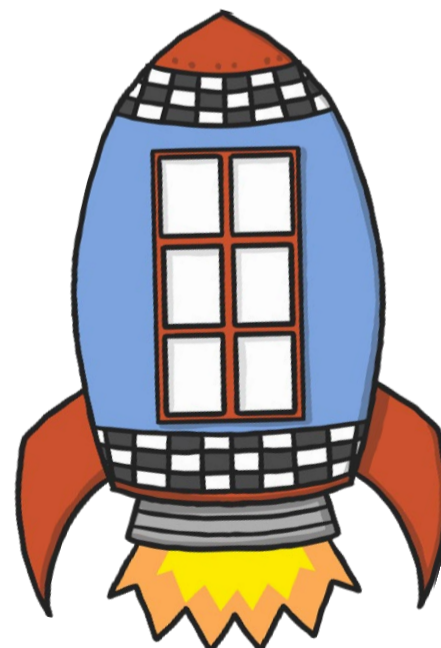
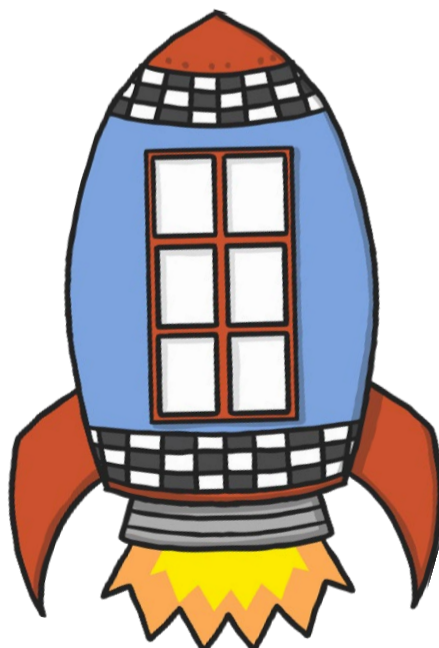
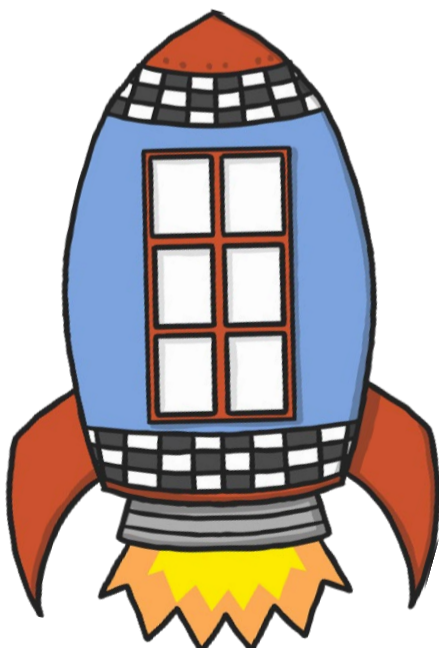
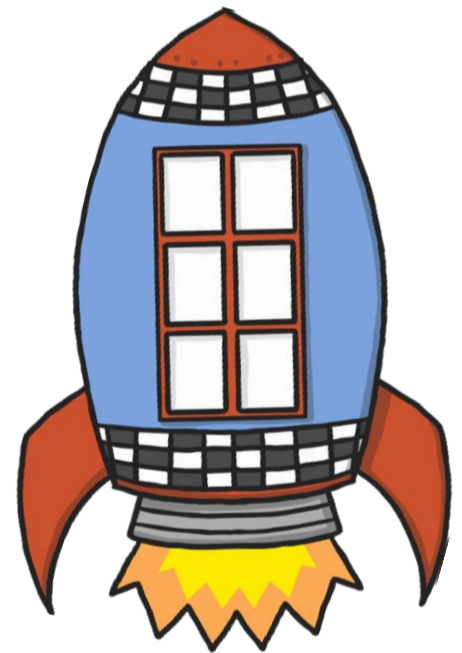
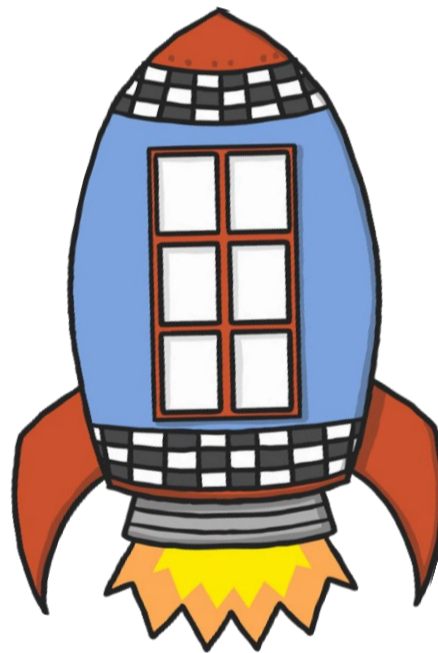
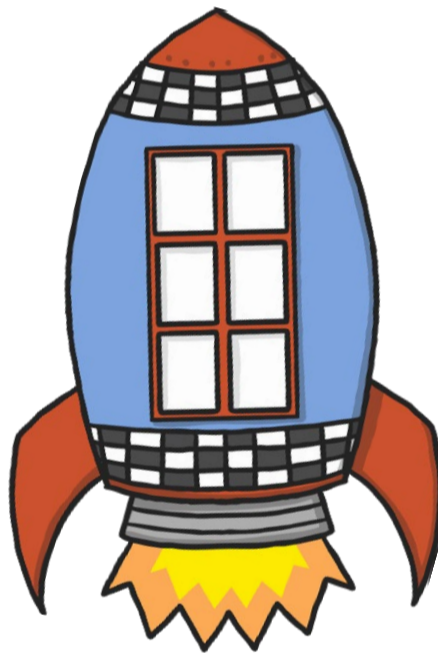
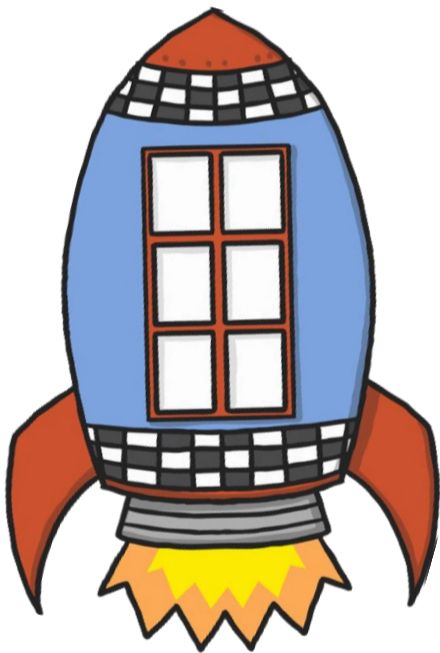
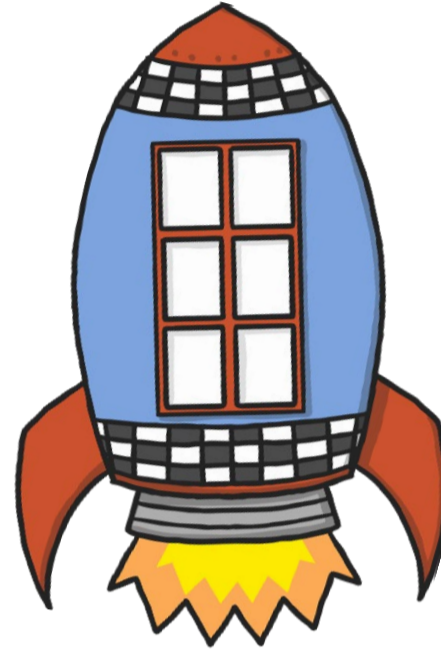
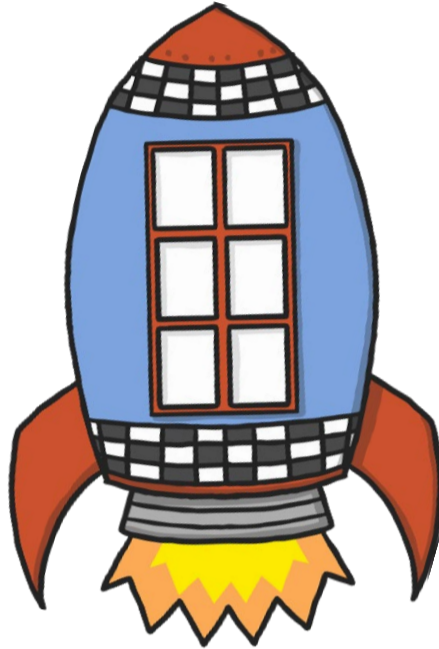
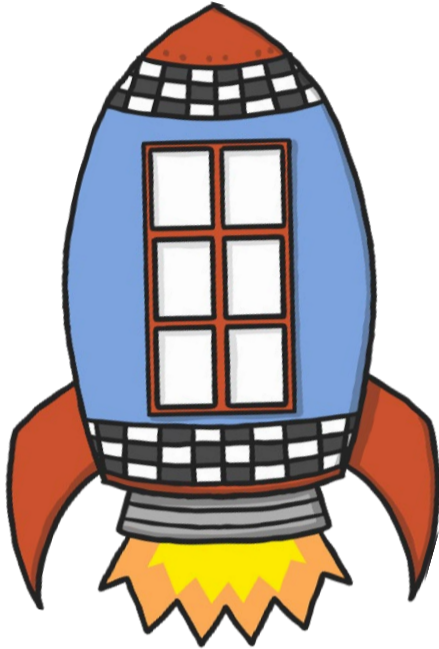


# Finding Half

I can find  $\frac{1}{2}$  in different ways.



Colour  $\frac{1}{2}$  of the windows green.



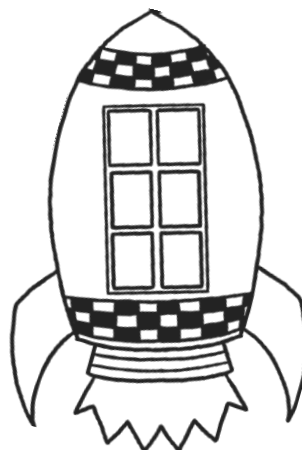
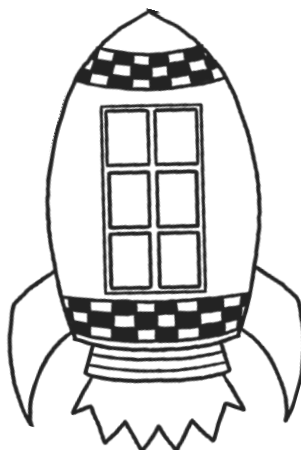
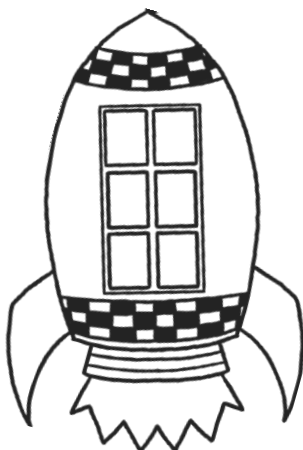
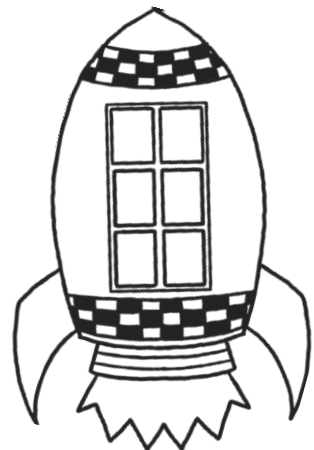
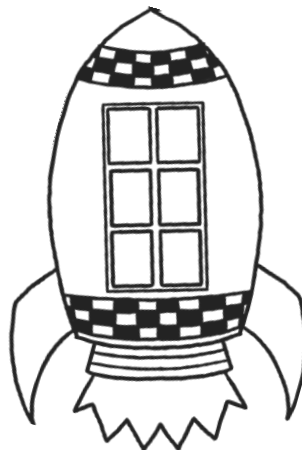
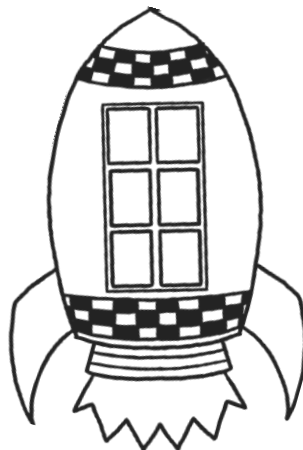
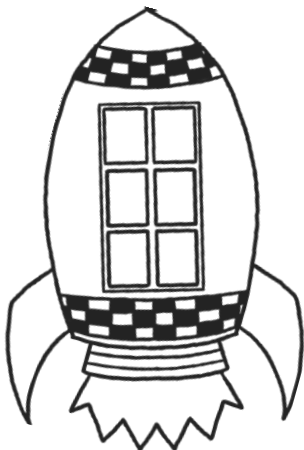
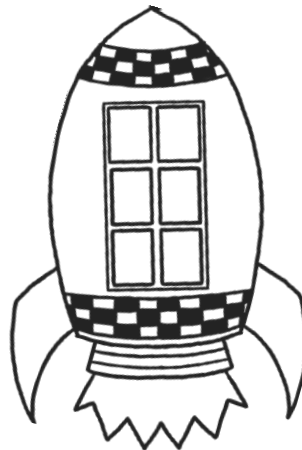
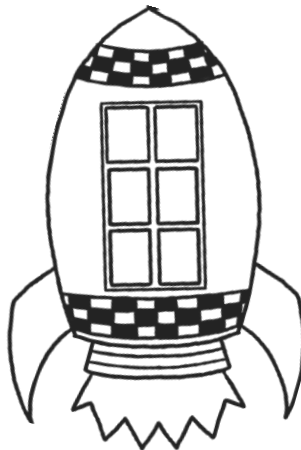
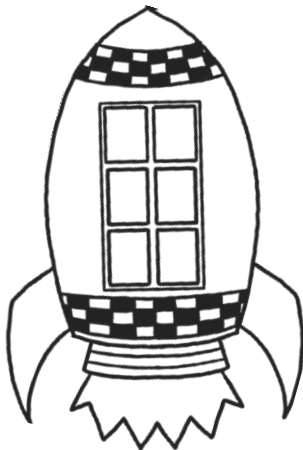


# Rocket Riddle

I can find  $\frac{1}{2}$  in different ways.



Colour  $\frac{1}{2}$  of the windows green.



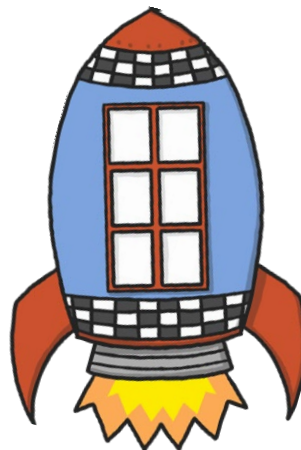
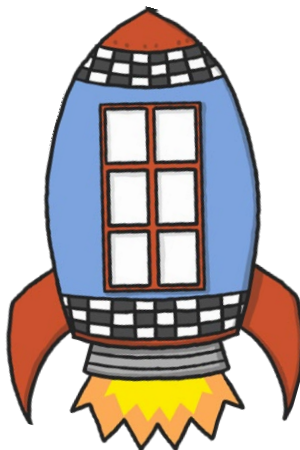
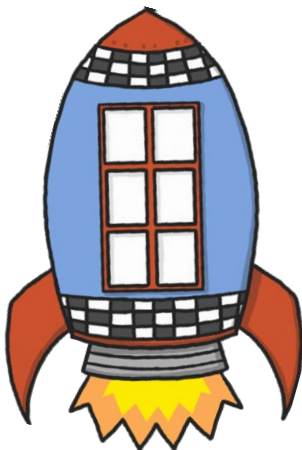
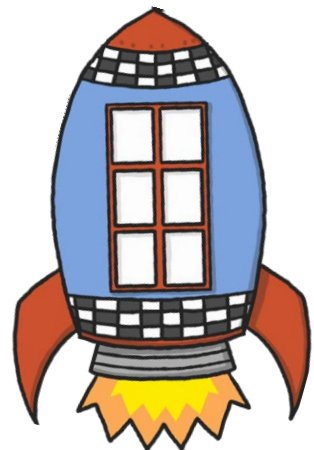
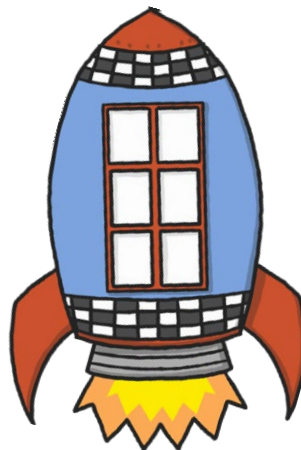
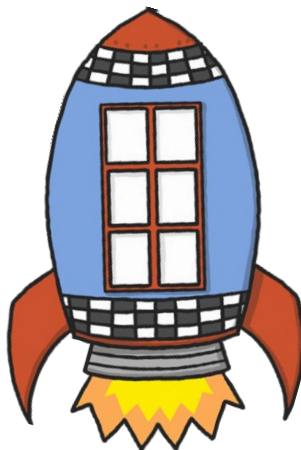
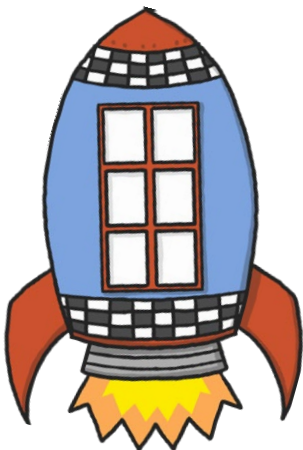
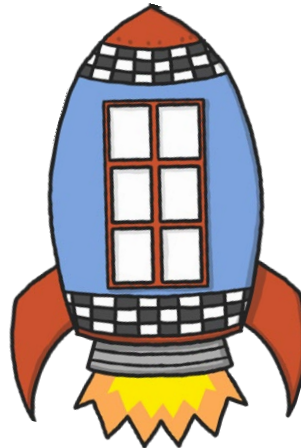
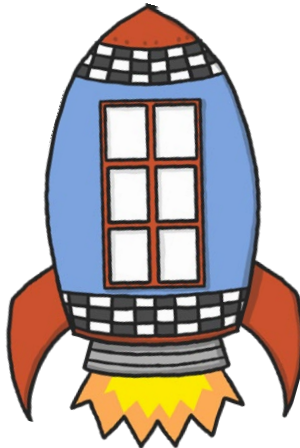
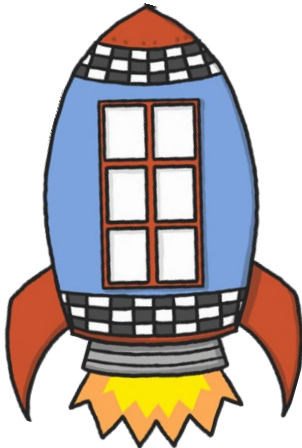


# Rocket Riddle

I can find  $\frac{1}{2}$  in different ways.



Colour  $\frac{1}{2}$  of the windows green.



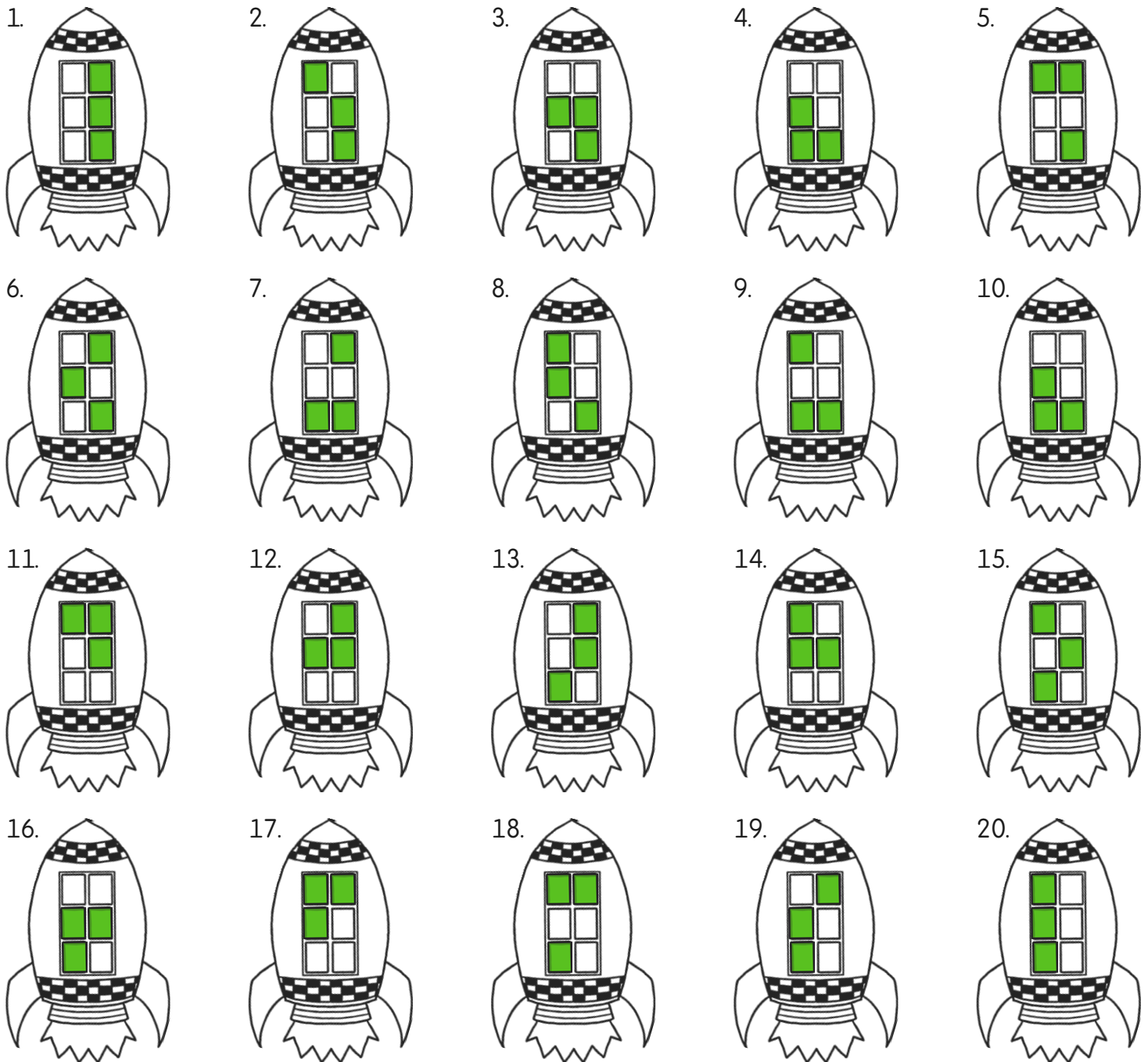
# Rocket Activity Sheet Answers

The purpose of this lesson is not to find all the solutions but to understand that  $\frac{1}{2}$  does not need to look like  $\frac{1}{2}$ .

If however you have some high flyers who want to find all the ways or you repeat the lesson at some point as an investigation to find them all, the solution is provided for you. As an investigation you may wish to start with 2 windows then 4 before moving on to 6.

## Solution

There are 20 different ways to colour  $\frac{1}{2}$  the windows. If they have found them all correctly each window will be green 10 times.

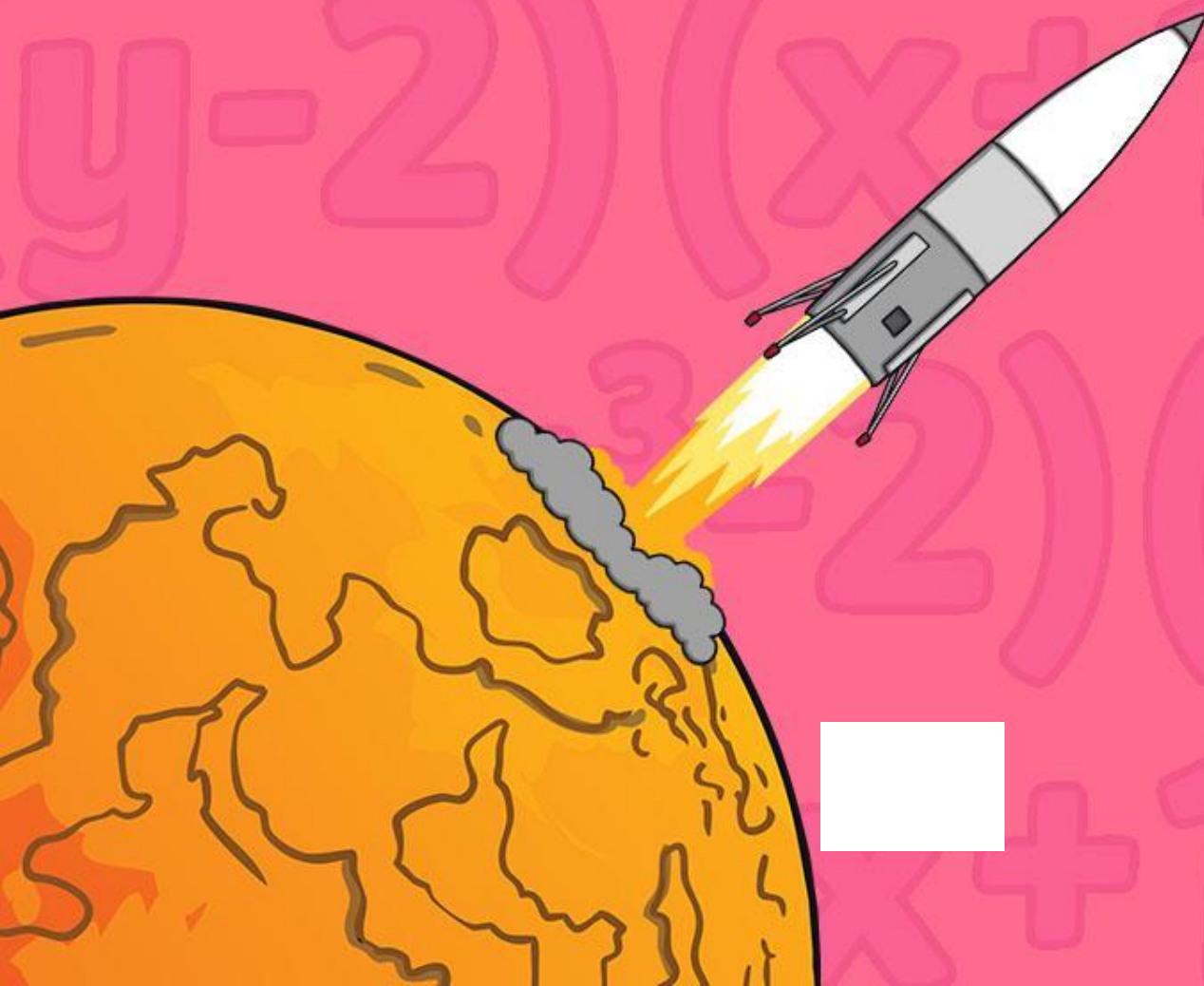




# Mathematics

Number and Algebra

# Half in Different Ways



# Aim

- I can find different ways to make half.

# Success Criteria

- I can find  $\frac{1}{2}$  of a quantity.
- I can find  $\frac{1}{2}$  in different ways.
- I can explain why 2 halves make a whole.

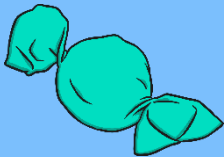


# Sharing



Lisa and Ben are sharing out **4** items they have found on a treasure hunt.

Can you help them share fairly?



**4** shared between **2** equals **2** each.

# Sharing



Lisa and Ben are sharing out **4** items they have found on a treasure hunt.

Can you help them share fairly?



# Sharing



Lisa and Ben are sharing out **12** items they have found on a treasure hunt.

Can you help them share fairly?



# Sharing

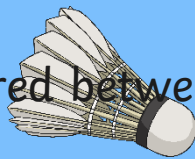


Lisa and Ben are sharing out **2** items they have found on a treasure hunt.

Can you help them share fairly?



**2** shared between **2** equals **1** each.

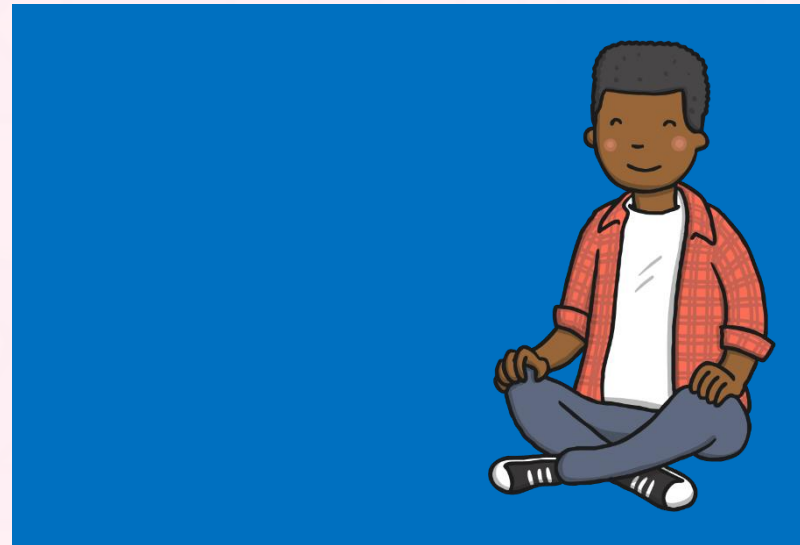


# Sharing



Lisa and Ben are sharing out **8** items they have found on a treasure hunt.

Can you help them share fairly?



# Sharing



Lisa and Ben are sharing out **10** items they have found on a treasure hunt.

Can you help them share fairly?



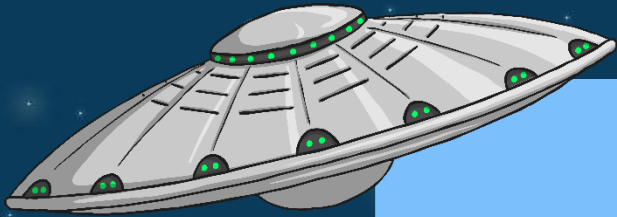
# Sharing



Lisa and Ben are sharing out what they have found on a treasure hunt.  
Can you help them share fairly?



# What Is a Half?



A half is

$$\frac{1}{2} \text{ of}$$

2 equal size pieces

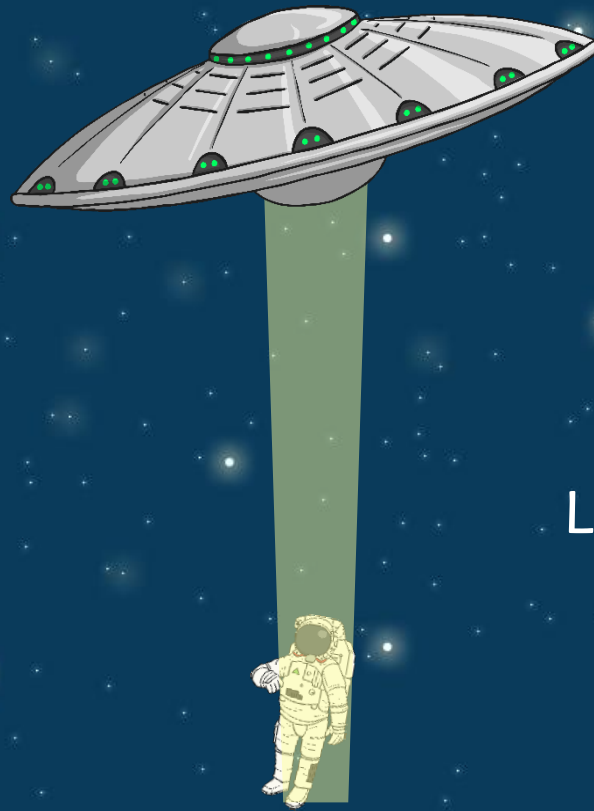




# Rocket Riddle



What's happening in space today?

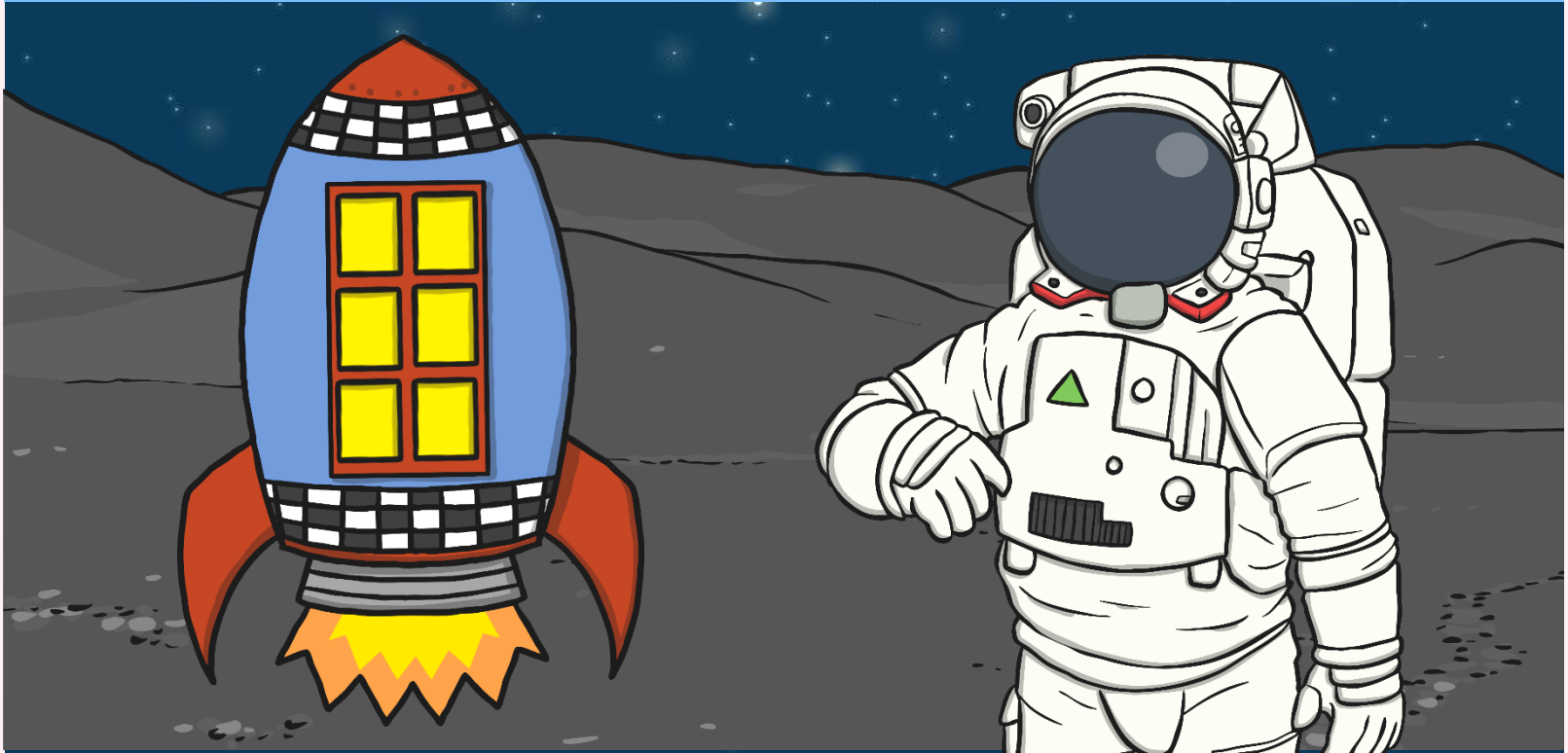


Let's go find out.  
Hold on tight!

# Rocket Riddle



This is Alan the Astronaut. The radio in Alan's rocket is broken and he can't get through to ground control. He needs to let ground control know he is safe. He does this by putting green lights in  $\frac{1}{2}$  of the windows.

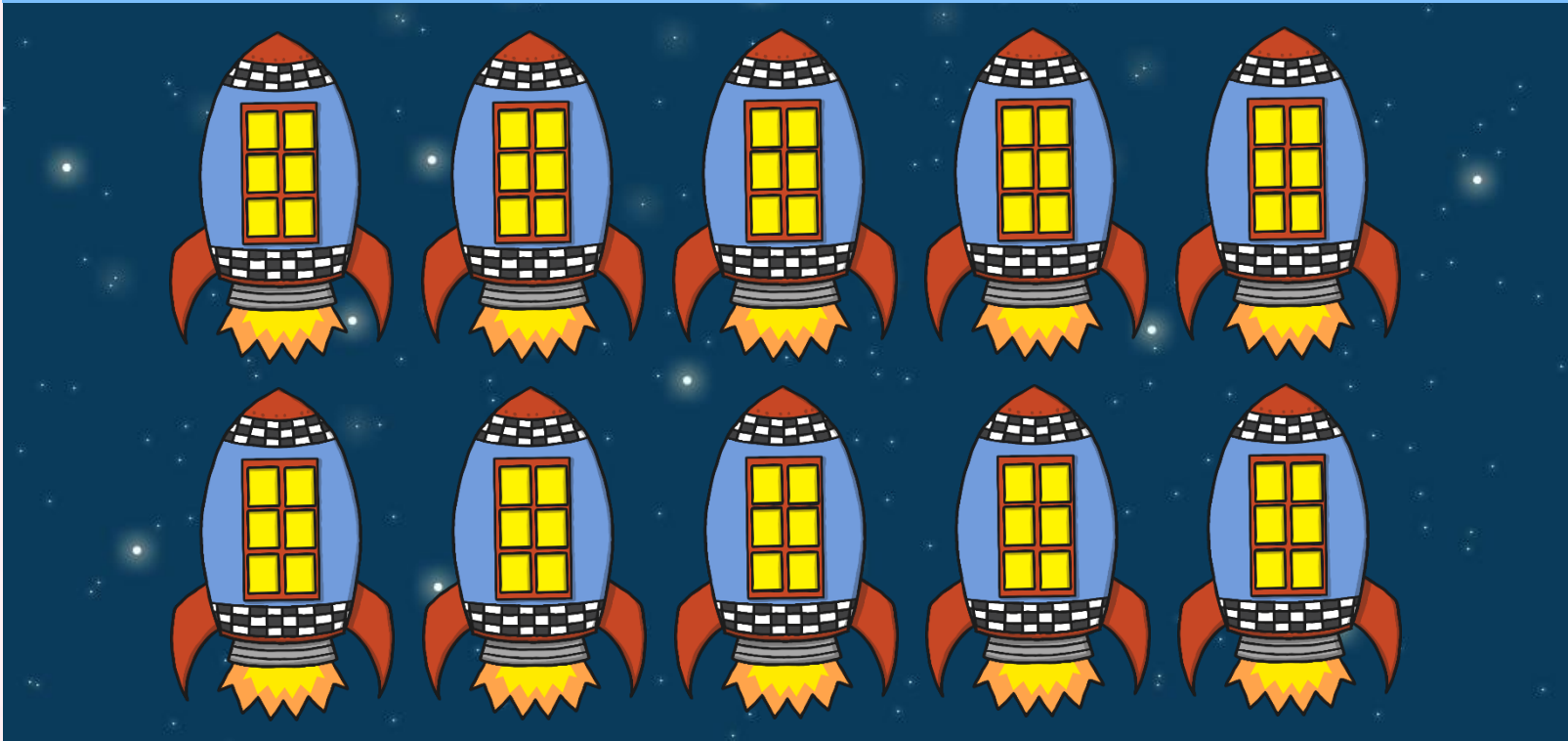


# Rocket Riddle

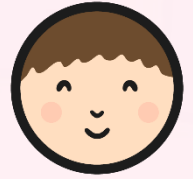


He must turn  $\frac{1}{2}$  the windows green in a different way each day for ground control to know he is safe.

Are there enough different ways to light up the windows for 10 days so Alan can finish his mission?



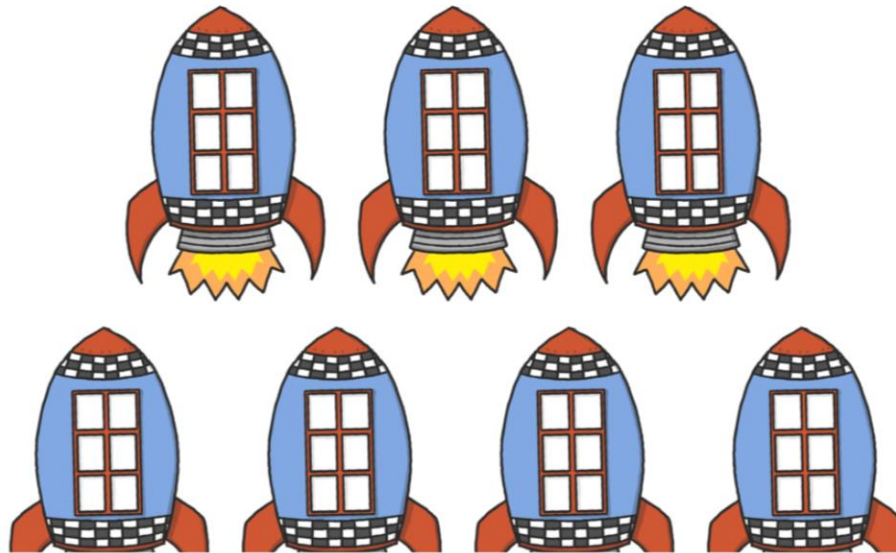
# Rocket Riddle Activity



## Rocket Riddle

I can find  $\frac{1}{2}$  in different ways.

Colour  $\frac{1}{2}$  of the windows green.

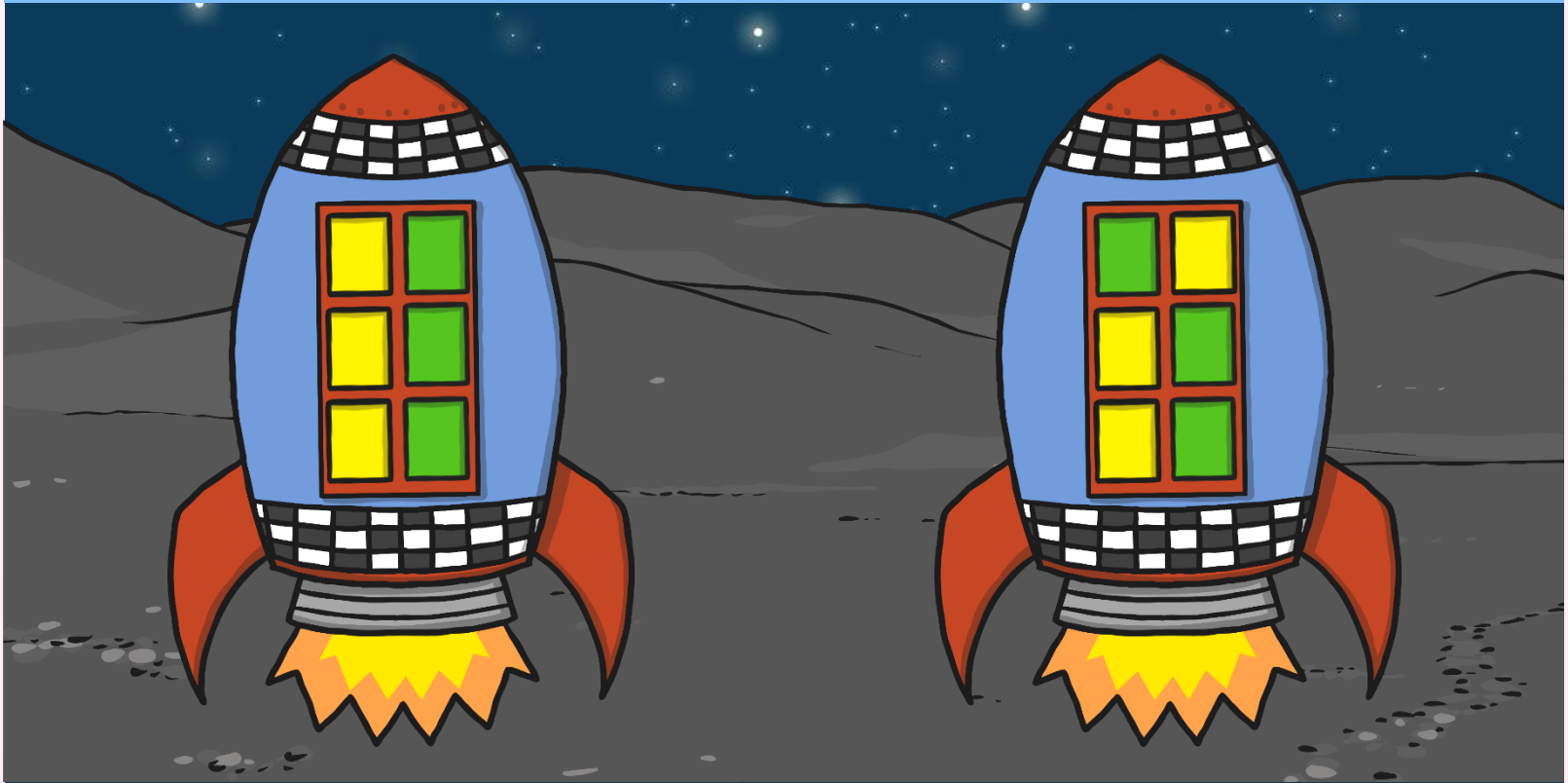


# What Fraction?



What fraction of these rockets are shaded?

What fraction is not shaded?



# Half Blue, Half Red



$\frac{1}{2}$  of the children should be wearing blue jumpers and  $\frac{1}{2}$  should be wearing red jumpers. Can you find a way to do this? Click once to turn a jumper red and twice to turn it blue.



# Aim



- I can find different ways to make half.

# Success Criteria

- I can find  $\frac{1}{2}$  of a quantity.
- I can find  $\frac{1}{2}$  in different ways.
- I can explain why 2 halves make 1 whole.







# Rocket Windows Sheet



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# Rocket Windows Sheet



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# Rocket Windows Sheet



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# Rocket Windows Sheet

