



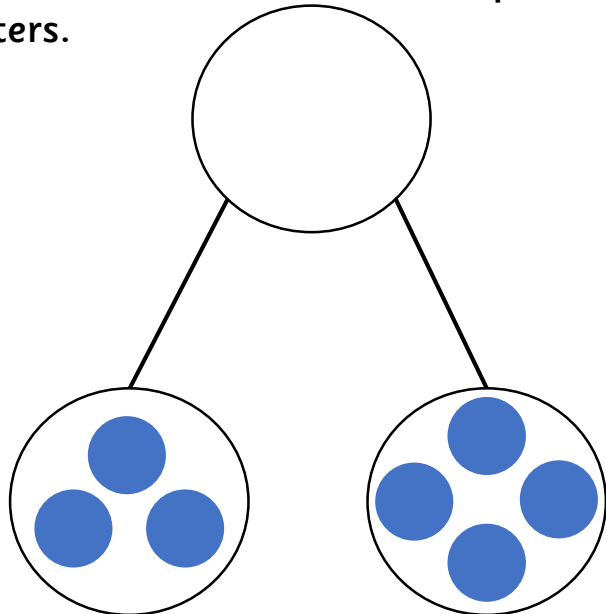
Hi there, astronaut!

Your fantastic space skills are needed on a new mission. ‘The Space Searchers’ need you to jet off to space and take pictures of some of the planets.

Before you take part in this exciting mission, you have a few tasks to complete.

First, you need to work out how many astronauts will be going on the mission with you.

1. Each counter represents one astronaut. Complete the part whole model using ticks for counters.



1a. How many astronauts are going on the mission with you?

Lets hope there are enough seats on the rocket!

Now you know how many of you are travelling on the rocket, you need to get your equipment ready.

You will need to take food and juice packets with you.

Below are two different types of juice packets.



2. Complete this sentence by filling the gaps:

_____ orange juice packets add _____ apple juice packets
equals _____ juice packets.

Now fill in the boxes to make the sentence into a number sentence:

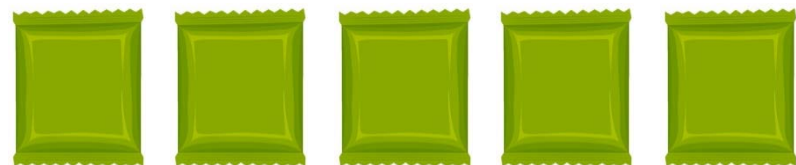
$$\boxed{} + \boxed{} = \boxed{}$$

3. Are these number sentences also correct? Explain your answer.

$$\begin{array}{ccccc} \boxed{3} & + & \boxed{5} & = & \boxed{8} \\ \boxed{8} & = & \boxed{3} & + & \boxed{5} \\ \boxed{5} & = & \boxed{8} & + & \boxed{3} \end{array}$$

Don't drink all the juice at once, it will be a long journey!

4. Its time to load the rocket.
There should be 10 food packets, 10 space helmets and 10 chocolate bars.
It looks like somebody has made a mistake and not counted enough of each item. Work out how many of each item are missing and write the numbers in the boxes.







5. Are you ready for take off?
To get in to the rocket, you need to unlock the door which has a padlock on. Tick all the number bonds that are equal to 8.

3 + 2

1 + 7

5 + 3

4 + 6

8 + 1

2 + 6

5a. To crack the code for the padlock, work out each of the above calculations and write the answer to each one in the boxes below.

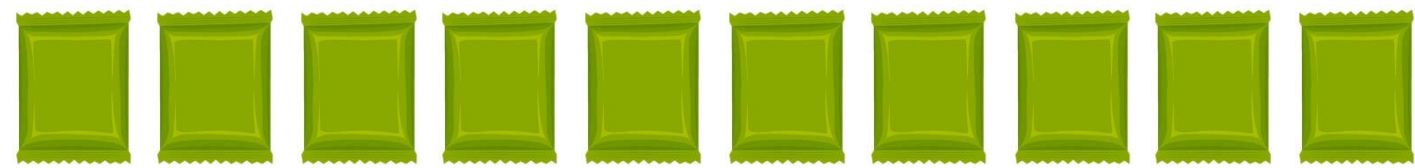
Fantastic, you have unlocked the padlock and are ready for take off.

10... 9... 8... 7... 6... 5... 4... 3... 2... 1... Take off!!



What is it like in space? Is it as amazing as you imagined?

6. It seems like somebody has been a little bit greedy and eaten too many food packets! You started with 10 food packets.



7 food packets have been eaten. How many food packets do you have now?

6a. If you had started with 8 food packets and 6 were eaten, how many would be left?

7. You've landed on planet Zog and the resident aliens want to speak to you.



“Hello human, we’ve heard that you are very good at maths and we need your help. Some of our Alien family have red spots and some do not.”



“How many of our family do not have red spots?”

7a. “We don’t know how to write this as a calculation, please show us!”

$$\square - \square = \square$$

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Your fellow astronauts have taken some brilliant pictures of the planets.
The planets are represented by these 8 counters:



One of your fellow astronauts has written some calculations about the counters.

$$6 + 2 = 8$$

$$2 + 6 = 8$$

$$8 - 6 = 2$$

$$8 - 2 = 6$$

8. Complete the calculations using the information above.

$$8 = \square + \square$$

$$8 = \square + \square$$

$$2 = \square - \square$$

$$6 = \square - \square$$

Congratulations, you have completed the mission!
Good luck in your next mission.



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