

Reasoning and Problem Solving

Addition and Subtraction Consolidation – Year 1

National Curriculum Objectives

Mathematics Year 1: [Represent and use number bonds and related subtraction facts within 20](#)

Mathematics Year 1: [Read, write and interpret mathematical statements involving addition \(+\), subtraction \(–\) and equals \(=\) signs](#)

Mathematics Year 1: [Add and subtract one-digit and two-digit numbers to 20, including zero](#)

Mathematics Year 1: [Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as \$7 = \square - 9\$](#)

About This Resource

This resource is aimed at Year 1 Expected and has been designed to give children the opportunity to consolidate the skills they have learned in Autumn Block 2 – Addition and Subtraction.

The questions are based on a selection of the same ‘small steps’ that are addressed in the block, but are presented in a different way so children can work through the pack independently and demonstrate their understanding and skills.

Small Steps

Part whole model

Addition symbol

Fact families – addition facts

Number bonds to 10

Compare number bonds

Subtraction - taking away, how many left? Crossing out

Subtraction - finding a part, breaking apart

Fact families - the 8 facts

More [Year 1 Addition and Subtraction](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

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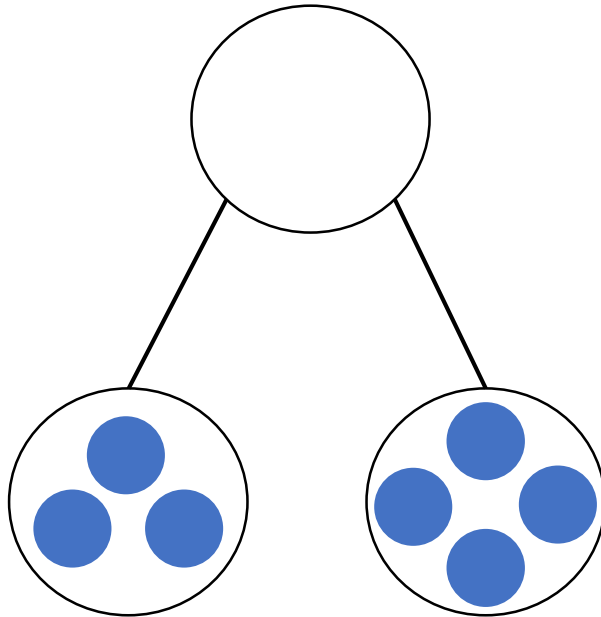


Hi there astronaut!

**You are about to jet off to space to take pictures of some of the planets.
Before you go, you have a few tasks to do.**

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

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



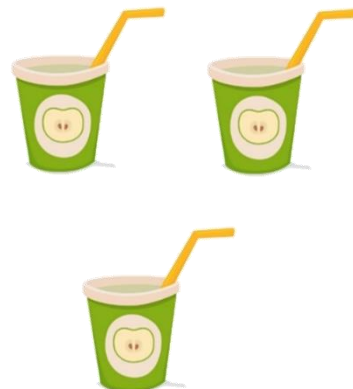
2. How many astronauts are going on the mission with you?

Lets hope there are enough seats on the rocket!

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Now, you need to get your equipment ready.
You will need to take food and juice packets with you.

Below are two types of juice packets.



3. Complete this sentence by filling the gaps:

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

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

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

5. Are these number sentences also correct?

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

Explain your answer.

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It's time to load the rocket.

6. There should be 10 food packets, 10 space helmets and 10 chocolate bars. How many of each are missing? Write the numbers in the boxes.

7. You need to unlock the rocket door but it has a padlock on.
You must crack the code.

First, tick all the number bonds that are equal to 8.

3 + 2	1 + 7	5 + 3	4 + 6	8 + 1	2 + 6

8. Now, work out each of the calculations and write the answers in the boxes below.

3 + 2	1 + 7	5 + 3	4 + 6	8 + 1	2 + 6

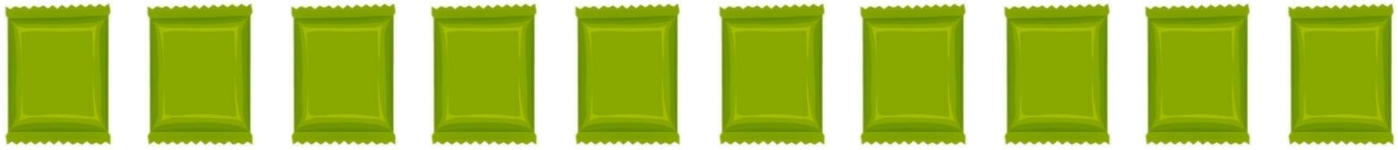
You have unlocked the padlock and are ready for take off.

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



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Somebody has been greedy and eaten too many food packets!
You started with 10 food packets.



9. 7 food packets have been eaten. How many food packets do you have now?

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

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



“Hello, we hear you are very good at maths and we need your help. Some of our alien family have red spots and some do not.”



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

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

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

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You 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.

$$6 + 2 = 8$$

$$2 + 6 = 8$$

$$8 - 6 = 2$$

$$8 - 2 = 6$$

13. Complete these calculations using the information above.

$$8 = \square + \square$$

$$8 = \square + \square$$

$$2 = \square - \square$$

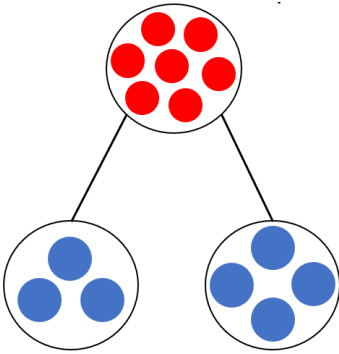
$$6 = \square - \square$$

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



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1.



2. 7

3. Five, three, eight

4. $5 + 3 = 8$

5. The first two are correct but the third one is incorrect. It should say $8 = 5 + 3$.

6. 5, 7, 9

7. $3 + 2$ $1 + 7$ $5 + 3$ $4 + 6$ $8 + 1$ $2 + 6$

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8. 5, 8, 8, 10, 9, 8

9. 3

10. 2

11. 7

12. $9 - 2 = 7$

13. $8 = 6 + 2$, $8 = 2 + 6$, $2 = 8 - 6$, $6 = 8 - 2$