

Reasoning and Problem Solving

Addition and Subtraction – Year 1

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 Spring Block 1 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

Add by Counting On
Find and Make Number Bonds
Add by Making Ten
Subtraction – Not Crossing 10
Subtraction – Crossing 10
Related Facts
Compare Number Sentences

National Curriculum Objectives

Mathematics Year 1: (1C1) [Represent and use number bonds and related subtraction facts within 20.](#)

Mathematics Year 1: (1C2a) [Add and subtract one-digit and two-digit numbers to 20, including zero.](#)

Mathematics Year 1: (1C2b) [Read, write and interpret mathematical statements involving addition \(+\), subtraction \(–\) and equals \(=\) signs.](#)

Mathematics Year 1: (1C4) [Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as \$7 = \quad - 9\$.](#)

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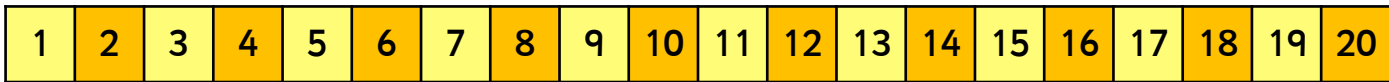
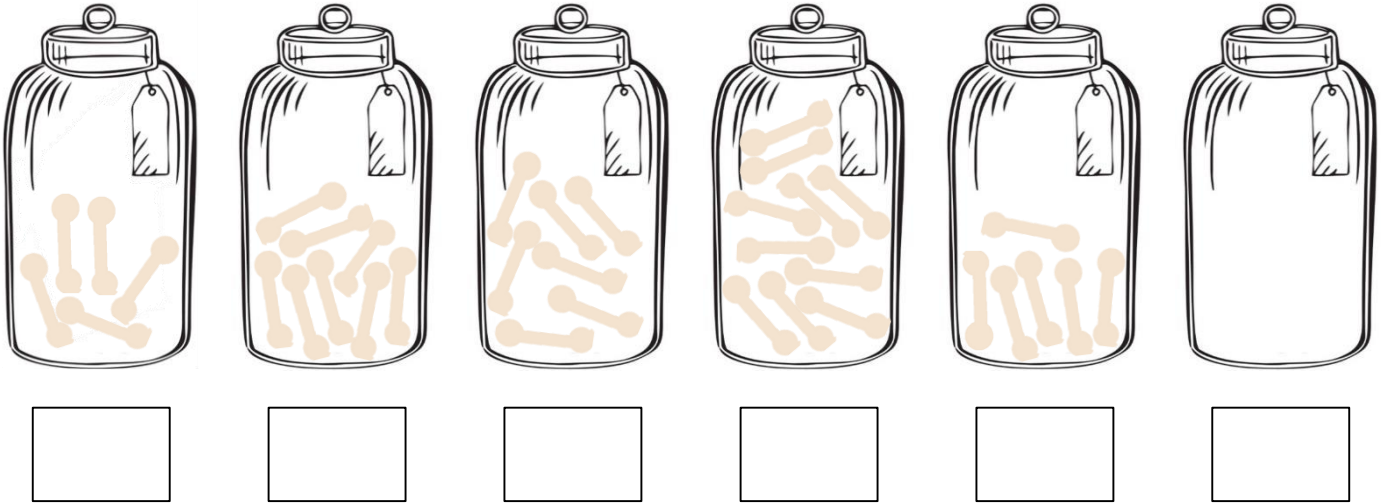


Animal Antics

Penny is excited. She is opening a new Pet Shop.

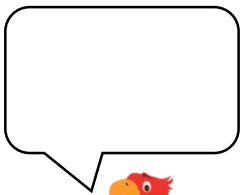
She has lots of work to do. Can you help?

1. Penny keeps her dog bones in jars of 20. A customer came in and she lost count! How many more treats does each jar need to make 20?

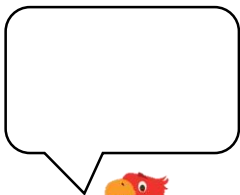


2. Penny's parrot, Percy is great at adding! He counts on to find the answer! What would he say for each of these number statements?

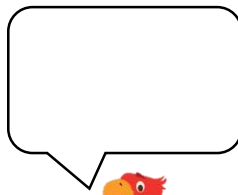
$8 + 4 =$



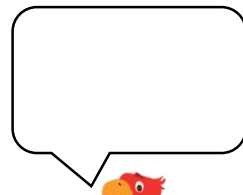
$7 + 5 =$



$12 + 7 =$



$9 + 5 =$



3. Can you write 3 more additions for Percy to work out?

4. The fish are in 8 tanks. Penny needs to put the fish in 4 tanks. Can you help her work out how many fish will be in each tank?

Write number statements and the answers under each pair.



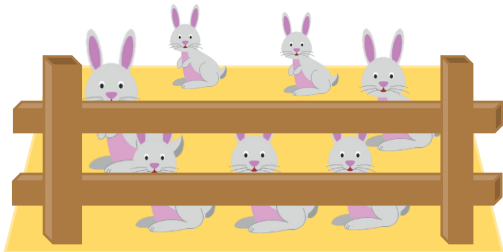






5. The rabbits are selling fast. Penny had 10 rabbits this morning. Here's a picture of the rabbit pen now:

How many has she sold?



A customer comes in to buy two rabbits. How many rabbits are left now?

6. Penny has 13 lettuces to feed the turtles. She gives them 4 lettuces. How many lettuces are left?

She gives them 2 more lettuces. How many are left now?



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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7. When Penny opened the shop this morning, she had 15 birds. Now she has 8 left. This morning, she had 16 mice. Now she has 9.



Has she sold more birds or mice? Explain your answer.

8. Penny has the same number of cats and dogs left at the end of the day. Complete the number sentence to show this.



$$12 - 5 = 16 - \square$$



Penny sells some snakes and turtles. Complete the number sentences to find out how many she has left.



$$12 - 4 = \square$$



$$6 - 3 = \square$$

9. Penny was counting the animals in the shop. One of the cats has walked all over her work! Can you help her to work out the missing numbers?

10. To say thank you to all her customers, Penny decides to buy some sweeties for everyone who came to visit in the first week. How many sweeties does she need?

Monday	Tuesday	Wednesday	Thursday	Friday
4	7	3	3	2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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Reasoning and Problem Solving – Addition and Subtraction – Year 1

1. 15 12 13 10 14 20

2. 12 12 19 14

3. Children can write any number statement using numbers to 20 and + and = signs.

4. $6 + 5 = 11$ $6 + 2 = 8$ $7 + 4 = 11$ $9 + 8 = 17$

5. 3 5

6. $13 - 4 = 9$ $9 - 2 = 7$

7. $15 - 8 = 7$ $17 - 9 = 8$

Penny has sold more mice: she sold 8 mice but only 7 birds.

8. 9

She has 8 turtles and 3 snakes left.

9. 1 5 3 3

10. 19