

Reasoning and Problem Solving

Addition and Subtraction Consolidation – Year 2

National Curriculum Objectives

Mathematics Year 2 [Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100](#)

Mathematics Year 2 [Add and subtract numbers using concrete objects, pictorial representations, and mentally for a two-digit number and ones](#)

Mathematics Year 2 [Add and subtract numbers using concrete objects, pictorial representations, and mentally for a two-digit number and tens](#)

Mathematics Year 2 [Add and subtract numbers using concrete objects, pictorial representations, and mentally for two two-digit numbers](#)

Mathematics Year 2 [Add and subtract numbers using concrete objects, pictorial representations, and mentally for adding three one-digit numbers](#)

Mathematics Year 2 [Show that addition of two numbers can be done in any order \(commutative\) and subtraction of one number from another cannot](#)

Mathematics Year 2 [Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures](#)

Mathematics Year 2 [Solve problems with addition and subtraction applying their increasing knowledge of mental and written methods](#)

Mathematics Year 2 [Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems](#)

About This Resource

This resource is aimed at Year 2 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

Check calculations

Add and subtract 1s

Add and subtract 10s

Subtract a 1-digit number from a 2-digit number - crossing ten

Add three 1-digit numbers

More [Year 2 Addition and Subtraction](#) resources.

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Consolidation Pack – Year 2 – Teaching Information

Reasoning and Problem Solving
Addition and Subtraction Consolidation – Year 2



In the middle of the deep, dark forest there is a little gingerbread cottage. In the gingerbread cottage lives a witch, called Wilma.

You might remember Wilma from her run-in with Hansel and Gretel. However, Wilma is being kind to everyone now.

She is planning a big party for all her neighbours in the forest. Join Wilma as she gets everything ready for the party. The first job is a little bit of redecorating!

1. Wilma's first stop is Barnaby Bear's Building Supplies. Wilma needs gumdrops to go around the front door. She knows she needs more than 15, but less than 25. She already has 6 gumdrops at home. How many will she need? Find all the possible answers.



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“Any chance we could narrow that down, Wilma?” asks Barnaby.

“Hmm..” thinks Wilma. “I know! I need twice as many gumdrops for the door as I need for a window, and a window needs 10!”



2. How many giant gumdrops will Wilma need to go around the door and three windows?



3. If she already has 6, how many gumdrops does Wilma have to buy for her door and windows?



“Oh, this is going to look brilliant! Now, time to sort out the garden – I’m off to Granny’s!” Wilma waves goodbye to Barnaby and heads to her next stop.

For her gardening needs, Wilma always goes straight to Granny’s Garden Centre. She wants three big candy-floss trees, three chocolate drop bushes and three liquorice vines for her garden. Luckily, Granny is having a sale!

Item	Regular Price	Sale Price
Candy floss trees	£5	£4
Chocolate Drop bushes	£9	£7
Liquorice vines	£7	£6

4. How much does she spend on each type of plant?

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5. Wilma thinks she's saved £5 on the Chocolate Drop bushes in Granny's sale. Is she right? Explain why.



6. "I want to offer my visitors a nice cup of dandelion tea," Wilma thinks to herself. "I need to buy more dandelions. I should top up my other flower beds too!"

If Wilma already has the following number of flowers growing in her garden, how many more will she need to plant so that each flower bed has 100 flowers?



If the flower bed has....	Wilma must buy this many to make 100
37 dandelions	
45 roses	
67 tulips	
84 daisies	
93 poppies	

"Great, that's the garden sorted! Now for my last stop." Wilma hops on her broom and, in no time at all, arrives at Sal's Sweet Shack. "Finally - my favourite shop in the whole forest!"

Wilma is expecting a big group at her party, and so she is going to need a lot of food.



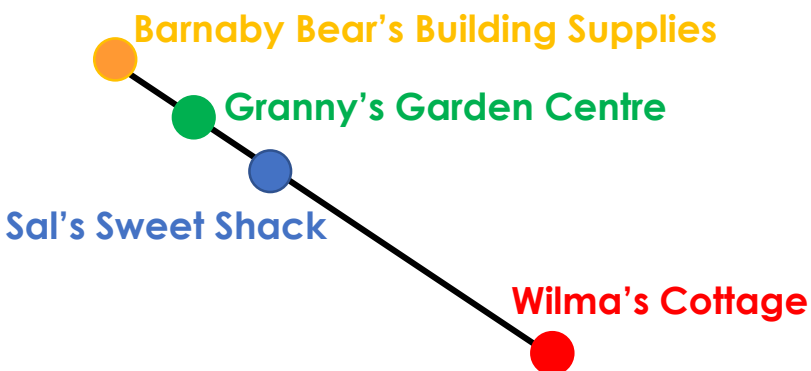
7. One single biscuit costs £2. One tin of 10 biscuits costs £22. What is the cheapest way for Wilma to buy 40 biscuits?

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8. “Now, for the cakes!” One cake serves 16 people. Wilma is expecting between 30 and 40 guests. “I’ll get 2 cakes, that will be plenty!” she says. Will she have enough cake? Explain why.

9. Wilma carefully balances all her purchases on her broom. “I wonder how long it will take to get home.” Barnaby’s Building Supplies is 1km from Granny’s Garden Centre. Granny’s is 7km from Wilma’s cottage. Sal’s is 1km from Granny’s. How far does she have to fly?



10. Wilma arrives home safely. “Right! Before I start decorating, I must make sure I have enough chairs. I sent out 40 invites but I know the Three Little Pigs, Goldilocks and Baby Bear cannot come.”

How many chairs does Wilma need? Explain why.

With a wave of her wand, Wilma’s house is decorated, the food is set out and she is all ready for her guests.

“Hooray! This is going to be a great party!” she smiles.



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1. 10, 11, 12, 13, 14, 15, 16, 17, 18

2. $20 + 10 + 10 + 10 = 50$

3. $50 - 6 = 44$.

4. Candy floss trees: £12;

Chocolate Drop bushes: £21

Liquorice vines: £18

5. Wilma is wrong. She has saved £6, not £5.

Regular price chocolate drops: $£9 + £9 + £9 = £27$

Sale price chocolate drops: $£7 + £7 + £7 = £21$

$£27 - £21 = £6$

6.

If the flower patch has....	Wilma must buy this many to make 100
36 dandelions	63
45 roses	55
67 tulips	33
84 daisies	16
93 poppies	7

7. Single biscuits: 40 biscuits cost $40 \times £2 = £80$. Tins of biscuits cost $4 \times £22 = £88$.

It is less expensive for Wilma to buy the biscuits individually.

8. $16 + 16 = 32$ so two cakes will only be enough for up to 32 people. She should get three cakes.

9. Granny's is 7km away from Wilma's but Sal's is 1km nearer. $7\text{km} - 1\text{km} = 6\text{km}$. Wilma has to fly 6km to get home.

10. 5 people cannot come. $40 - 5 = 35$. She needs 35 chairs.