About This Resource

This resource is aimed at Year 2 Secure and has been designed to give children the opportunity to consolidate the skills they have learned in Autumn Block 4 — Multiplication and Division.

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

Make equal groups
Multiplication sentences using the x symbol
Add equal groups
10 times table
2 times table
5 times table

National Curriculum Objectives

Mathematics Year 2: Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers

Mathematics Year 2: Calculate mathematical statements for multiplication and

division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs

Mathematics Year 2: Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot

Mathematics Year 2: Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts

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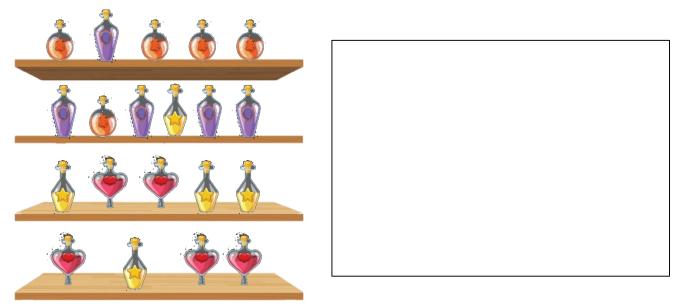


Welcome to Puddington's Potion Academy. A team of world-renowned wizards are trying to figure out the lost ingredient in a top secret magic potion. No wizard since Puddington himself has ever successfully created this potion in the history of the Academy.



"Legend has it that whoever gets this spell right shall be showered in the sweetest riches!" exclaims Giovanni the Great. "Not to mention the bragging rights — get ready to go down in history! Before we get started, we have to make sense of this cupboard — I can't find a thing I'm looking for!"

1. Have the bottles been correctly organised into equal groups? Explain why or why not. If not, how can you make them equal?



2. Create a label for each shelf with a multiplication sentence to describe how it has been organised.

Reasoning and Problem Solving - Multiplication and Division Consolidation - Year 2

As Giovanni set off trying to recreate the potion, the other wizards had their own ideas. "I can't believe we're all out of spider leg essence! I'm positive that's the lost ingredient." Xander the Extraordinary mumbles to himself. "I'll just quickly whip up some more! Eight legs to a spider, eight spiders to a bottle — I need eight spiders in total, then that reward is all mine!"

3. Add the equal groups of spiders to see which group should be bottled.

Perfect! Xander waves his wand twice and mutters the magic words...

4. "Crikey! How on earth have I managed to make sixty bottles of spider leg essence? I should put these bottles on the shelves before Giovanni notices and shouts again." If ten bottles fit on one shelf, how many shelves will store 60 extra bottles?



"Enough of these games - those riches are all mine, fools!" cackles Mauricio the Magnificent. "I've figured out the real secret ingredient — stand back!"

5. If Mauricio has the following number of bats, how many bat wings will he have for his potion?

Bats	Bat Wings
3	
8	
10	
12	

"Alakazim, alakazam — oh crumbs!" With a huge puff of smoke, a tiny flame sizzles out in his hands. "Maybe bat wings aren't the way to go after all... hmph!"

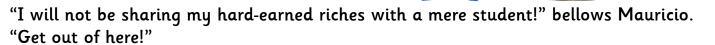
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Reasoning and Problem Solving - Multiplication and Division Consolidation - Year 2

The smoke clears and a small voice pipes up from the back of the room, "You wizards are all so greedy!"

"What — who is that?" squints Giovanni.

"Ivan? Tiny Ivan? This is a bit out of your league, kid!" chuckles Xander.



6. "You have horrible attitudes for such important wizards. I know what to do - I'll make enough for all of us!" Change Ivan's recipe so the potion serves 5.

Ingredient	Amount for 1	To serve 5
Rainbow berries	6	
Ladybird eye lashes	4	
Mermaid tears	9	
Unicorn tail hairs	7	

Ivan waves his wand and says the magic words:

With a sparkly blast, the room is filled with the richest sweets the wizards have ever



"What remarkable treasure!" exclaims Xander the Extraordinary. "The sweetest riches indeed!" laughs Giovanni the Great. "Bah! I'm going home!" grumbles Mauricio the Magnificent. A deep voice booms from the doorway: "Well done, Ivan." says Professor Puddington. "A generous spirit is truly a magical thing. From now on you shall be known to all as Ivan the Incredible!"

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Reasoning and Problem Solving - Multiplication and Division Consolidation - Year 2

No they have not. The second shelf has six bottles and the bottom shelf has 1.

To make them equal you could take one bottle from the second shelf and move it to the bottom shelf.

2.
$$3 \times 2 = 6$$

$$3 \times 4 = 12$$

$$2 \times 4 = 8$$

$$3 \times 3 = 9$$

$$3. \quad 3 + 3 = 6$$

$$4 + 4 = 8$$

The second group should be bottled.

 $10 \times 6 = 60$ Ten shelves are required to store 60 bottles.

5.

Bats	Bat Wings
3	6
8	16
10	20
12	24

Ingredient	Amount for 1	To serve 5
Rainbow berries	6	30
Ladybird eye lashes	4	20
Mermaid tears	9	45
Unicorn tail hairs	7	35

Magic words will vary!