

Let's Practise Using the Bar Model: Addition and Subtraction (Year 5)

Name.....

Date..... Class.....

In this pack you will meet 3 powerful wizards called Mimm, Merlin and McMiggle.

1. Mimm is mixing a potion. She adds 50ml of liquid, then 125ml of liquid. How much does she have altogether?



_____ ml

2. Merlin sends off two letters to Wizard University. Their weights are 700g and 1.5kg. How much do both weigh altogether in kilograms?



_____ kg

3. McMiggle charges £215 per term at her wizard club. So far she has collected £57.50. How much more does she need to collect?



£57.50

£ _____

4. Merlin mixes a potion at 568ml. He pours out 150ml. How much potion is left?

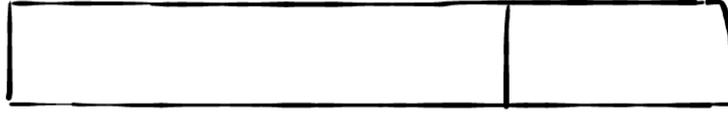


_____ ml

5. The spell book has 150 spells. Mimm, the mischievous wizard, rips out 28 spells. How many are left?



6. Merlin buys a new wand and pays with a ten pound note. His change is £2.60. How much does the wand cost?



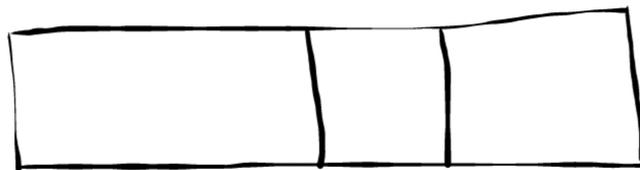
£ _____

7. A cauldron holds 5L of potion. Merlin pours 250ml and then 700ml out. How much is left, in litres?



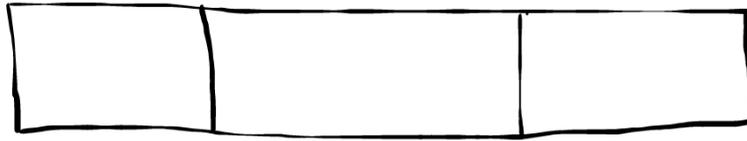
_____ L

8. Merlin's wizard hat measures 0.9m, Mimm's wizard sleeve measures 0.3m and McMiggle's hair measures a bushy 65cm. What is the combined lengths of these three items in metres?



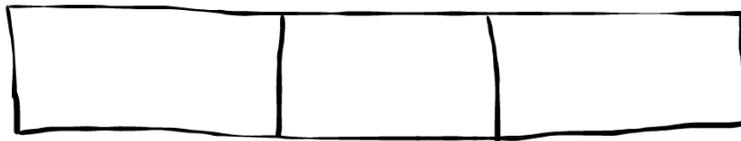
_____ m

9. McMiggle buys a new jar of magic power for £4.57 and a new wizard's toad for double the price. If he pays with £20, does he have enough change to buy another toad?



£ _____

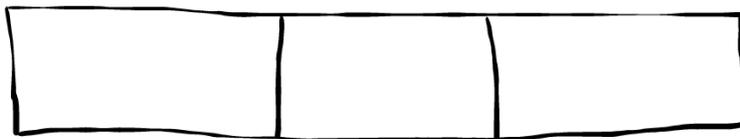
10. Merlin is 1.2m tall until Mimm casts a spell on him which reduces his size by 0.37m. To make matters worse, Mimm casts the spell again! How tall is Merlin now?



_____ m

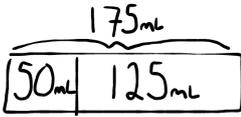
11. A group of four wizards are comparing their toad collections. They are 1,679 toads altogether!

The first two wizards own 637 of the toads and each of them has more than 300. The third wizard owns 487. The fourth wizard own the rest. Which wizard owns the most toads?



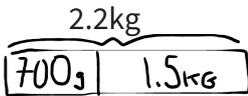
Answers:

- 1 Mimm is mixing a potion. She adds 50ml of liquid, then 125ml of liquid. How much does she have altogether?



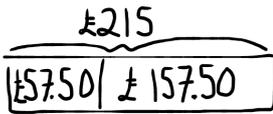
Answer: 175ml
Content domain: 5C1

- 2 Merlin sends off two letters to Wizard University. Their weights are 700g and 1.5KG. How much do both weigh altogether in kilograms?



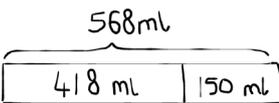
Answer: 2.2kg
Content domain: 5C2

- 3 McMiggle charges £215 per term at her wizard club. So far she has collected £57.50. How much more does she need to collect?



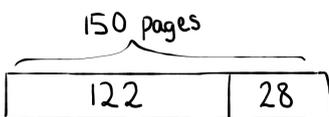
Answer: £157.50
Content domain: 5C1

- 4 Merlin mixes a potion at 568ml. He pours out 150ml. How much potion is left?



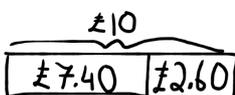
Answer: 418ml
Content domain: 5C1

- 5 The spell book has 150 spells. Mimm, the mischievous wizard, rips out 28 spells. How many are left?



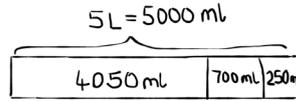
Answer: 122
Content domain: 5C1

- 6 Merlin buys a new wand for £10. His change is £2.60. How much does the wand cost?



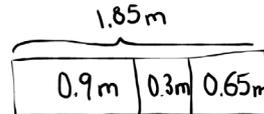
Answer: £7.40
Content domain: 5C1

- 7 A cauldron holds 5L of potion. Merlin pours 250ml and then 700ml out. How much is left, in litres?



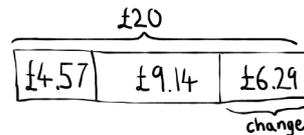
Answer: 4.05L
Content domain: 5C2

- 8 Merlin's wizard hat measures 0.9m, Mimm's wizard sleeve measures 0.3m and McMiggle's hair measures a bushy 65cm. What is the combined lengths of these three items in metres?



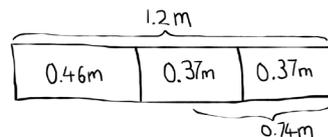
Answer: 1.85m
Content domain: 5C2

- 9 McMiggle buys a new jar of magic power for £4.57 and a new wizard's toad for double the price. If he pays with £20, does he have enough change to buy another toad?



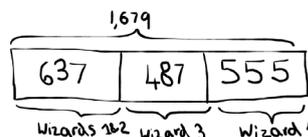
Answer: No, he has £6.29 and a wizard's toad is £9.14.
Content domain: 5C2; 5C4

- 10 Merlin is 1.2m tall until Mimm casts a spell on him which reduces his size by 0.37m. To make matters worse, Mimm casts the spell again! How tall is Merlin now?



Answer: 0.46m
Content domain: 5C2

- 11 A group of four wizards are comparing their toad collections. They are 1,679 toads altogether! The first two wizards own 637 of the toads and each of them has more than 300. The third wizard owns 487. The fourth wizard own the rest. Which wizard owns the most toads?



Answer: Wizard 4
Content domain: 5C4