Let's Practise Using the Bar Model: Addition and Subtraction (Year 6)

Name..

Date...Class..

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

1. At the start of the year, there were 5,623 new born wizard dragons. In the middle of the year, another 4,128 wizard dragons were born. How many dragons were born altogether?

2. The Wizard World employs 27,113 wizards; they decreased this number by 3,750. How many wizards were left at Wizard's world?

3. Mimm, the mischievous wizard, blew up 2,300 potions in her first year at wizard school; she blew up a further 1,234 in a second year. How many did she blow up all together?

4. Merlin was head of 1,821 students, McMiggle was deputy head of 1,189 students. How many students did they have all together?

5. Merlin trained 102,000 dragons in his life while Mimm has trained 1,002 dragons in her life. What is the difference between the amount of dragons they have trained?

6. McMiggle has 58,000 dragon eggs. 12,531 have hatched. How many eggs are still waiting to hatch?

_____

7. In total, 43,230 magic charms were sold to wizards over a 3 year period. In the first year, 25,424 were sold. In the second year, $\frac{1}{4}$ of that amount were sold. How many charms were sold in year 3?

_____

8. The wizard university is having a flash sale. Transformation has been reduced to £12,099 per year and invisibility is just £14,999! Merlin has £30,000 savings. How much will he have left if he purchases both the courses?

£ _____

9. Mimm captures 4,800 pixies in a month using her magic nets. She adds them to the 27,800 she already has and then sets half of them free. How many does she have left?

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10. Merlin drinks some shrinking potion. He is normally 1.2m tall. First he shrinks by 75.50cm, then by another 14.52cm and finally by 8.5mm. What is his new height in centimetres?

——— cm

11. Merlin's most important spell has to be exact. He pours 31.15ml of carrot root to 19.705ml of grapefruit juice. He says the volume of his potion rounded to the nearest ml is 50ml. Is he correct?

——— ml

Answers:

1 **At the start of the year, there were 5,623 new born wizard dragons. In the middle of the year, another 4,128 wizard dragons were born. How many dragons were born altogether?**
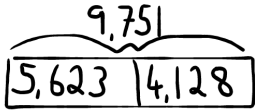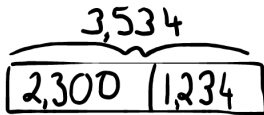
Answer: 9,751
Content: 6C8

2 **The Wizard World employs 27,113 wizards; they decreased this number by 3,750. How many wizards were left at Wizard's world?**
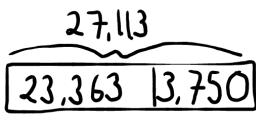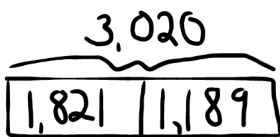
Answer: 23,363
Content: 6C8; 6C4; 6C9

3 **Mimm, the mischievous wizard, blew up 2,300 potions in her first year at wizard school; she blew up a further 1,234 in a second year. How many did she blow up all together?**
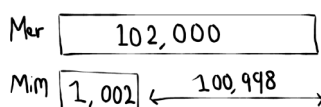
Answer: 3,534
Content: 6C8; 6C4; 6C9

4 **Merlin was head of 1,821 students, McMiggle was deputy head of 1,189 students. How many students did they have all together?**
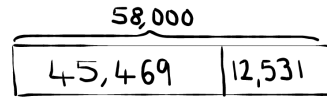
Answer: 3,020
Content: 6C8; 6C4; 6C9

5 **Merlin trained 102,000 dragons in his life while Mimm has trained 1,002 dragons in her life. What is the difference between the amount of dragons they have trained?**
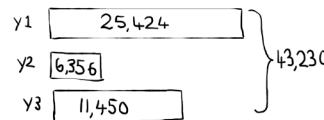
Answer: 100,998
Content: 6C8; 6C4; 6C9

6 **McMiggle has 58,000 dragon eggs. 12,531 have hatched. How many eggs are still waiting to hatch?**

Answer: 45,469
Content: 6C8; 6C4; 6C9

7 **In total, 43,230 magic charms were sold to wizards over a 3 year period. In the first year, 25,424 were sold. In the second year, $\frac{1}{4}$ of that amount were sold. How many charms were sold in year 3?**

Answer: 11,450
Content: 6C8; 6C4; 6C9

8 **The wizard university is having a flash sale. Transformation has been reduced to £12,099 per year and invisibility is just £14,999! Merlin has £30,000 savings. How much will he have left if he purchases both the courses?**
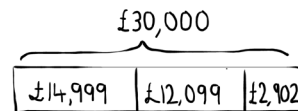
Answer: £2,902
Content: 6C8; 6C4; 6C9

9 **Mimm captures 4,800 pixies in a month using her magic nets. She adds them to the 27,800 she already has and then sets half of them free. How many does she have left?**
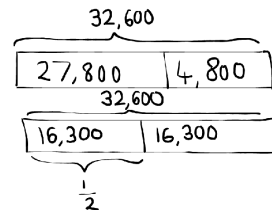
Answer: 16,300
Content: 6C8; 6C4; 6C9

10 **Merlin drinks some shrinking potion. He is normally 1.2m tall. First he shrinks by 75.50cm, then by another 14.52cm and finally by 8.5mm. What is his new height in centimetres?**
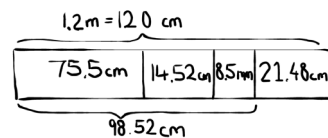
Answer: 21.48cm
Content: 6C8; 6C4; 6C9

11 **Merlin's most important spell has to be exact. He pours 31.15ml of carrot root to 19.705ml of grapefruit juice. He says the volume of his potion rounded to the nearest ml is 50ml. Is he correct?**
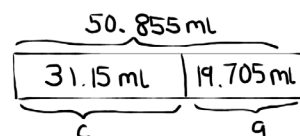
Answer: No, it is 51ml
Content: 6C8; 6C4; 6C9