

Let's Practise Using the Bar Model: Multiplication (Year 6)

Name.....

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

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

1. Merlin's wizard book has 150 pages. 4 trolls rip out 7 pages each. In total, how many pages did they rip out?



2. The total mass of spell powder needed for one spell is 6.5g. What is the total mass of spell powder needed for 6 spells?



_____g

3. At the wizard shop, Merlin pays £2.75 for a wand repair. He needs 5 wands repairing. How much will that cost in total?



£ _____

4. Mimm's spells can travel up to 12m, Merlin's can reach 5 times further than that. How far can Merlin's spells reach?



_____ m

5. McMiggle's wizard cottage in the woods measures 4.2m by 5m. What is the area of his house?

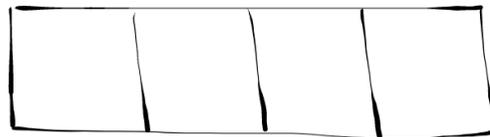


_____ m²

6. In the wizardry library, there are three large bookcases each with 8 shelves. If each shelf can take 47 books and all the shelves are full, how many books are there in the library?

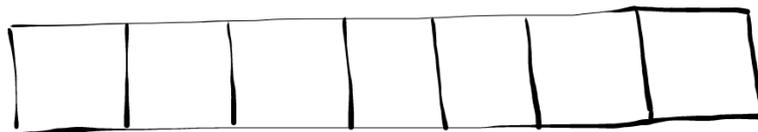


7. Wizard duel tickets are £5.20 each, Merlin, McMiggle and Mimm are all going. As it is a weekday, they get the tickets for $\frac{1}{4}$ of the price. How much do they pay for all of their tickets?



£ _____

8. $\frac{3}{7}$ of the wizards at wizarding college are girls. There are 324 boys. How many girls are there?



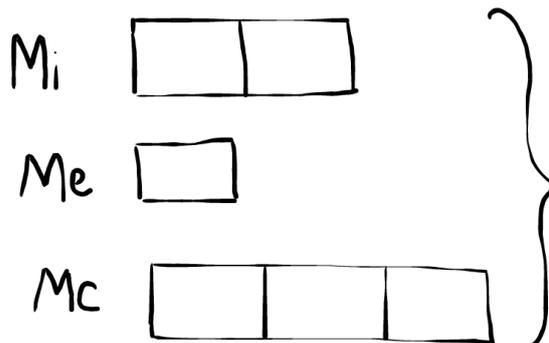
9. Merlin reads $\frac{2}{5}$ of his book of magic spells on Monday, he finishes the final 270 pages on Tuesday. How many pages are in his book in total?



10. Mimm is 0.9m tall, Merlin is 1.2m tall. Mimm casts a growth spell and grows 5 times bigger. Merlin casts a growth spell and grows 4 times bigger. Who is now the tallest?

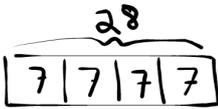


11. Altogether Merlin, Mimm and McMiggle have 96 charms. Mimm has twice the charms Merlin has. McMiggle has 50% more charms than Mimm. How many charms does Merlin have?



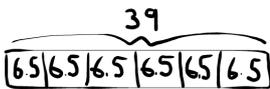
Answers:

- 1 Merlin's wizard book has 150 pages. 4 trolls rip out 7 pages each. In total, how many pages did they rip out?



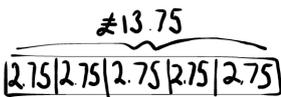
Answer: 28
Content: 6C8

- 2 The total mass of spell powder needed for one spell is 6.5g. What is the total mass of spell powder needed for 6 spells?



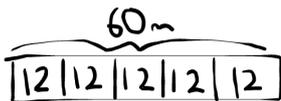
Answer: 39g
Content: 6C8

- 3 At the wizard shop, Merlin pays £2.75 for a wand repair. He needs 5 wands repairing. How much will that cost in total?



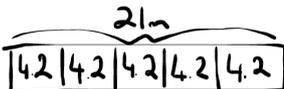
Answer: £13.75
Content: 6C8

- 4 Mimm's spells can travel up to 12m, Merlin's can reach 5 times further than that. How far can Merlin's spells reach?



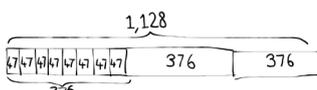
Answer: 60m
Content: 6C8

- 5 McMiggle's wizard cottage in the woods measures 4.2m by 5m. What is the area of his house?



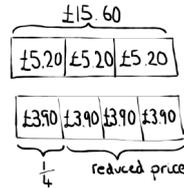
Answer: 21m²
Content: 6C8

- 6 In the wizardry library, there are three large bookcases each with 8 shelves. If each shelf can take 47 books and all the shelves are full, how many books are there in the library?



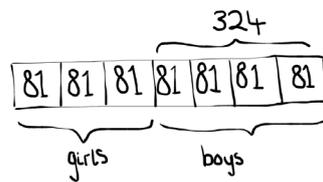
Answer: 1,128
Content: 6C8

- 7 Wizard duel tickets are £5.20 each, Merlin, McMiggle and Mimm are all going. As it is a weekday, they get the tickets for 1/4 of the price. How much do they pay for all of their tickets?



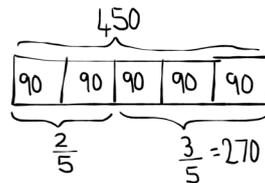
Answer: £11.70
Content: 6C8

- 8 3/7 of the wizards at wizarding college are girls. There are 324 boys. How many girls are there?



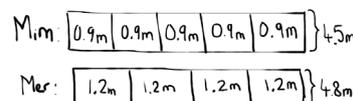
Answer: 243
Content: 6C8

- 9 Merlin reads 2/5 of his book of magic spells on Monday, he finishes the final 270 pages on Tuesday. How many pages are in his book in total?



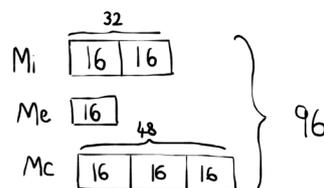
Answer: 450
Content: 6C8; 6C4; 6C9

- 10 Mimm is 0.9m tall, Merlin is 1.2m tall. Mimm casts a growth spell and grows 5 times bigger. Merlin casts a growth spell and grows 4 times bigger. Who is now the tallest?



Answer: Merlin (by 0.3m/30cm)
Content: 6C8; 6C4; 6C9

- 11 Altogether Merlin, Mimm and McMiggle have 96 charms. Mimm has twice the charms Merlin has. McMiggle has 50% more charms than Mimm. How many charms does Merlin have?



Answer: 16
Content: 6C8