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

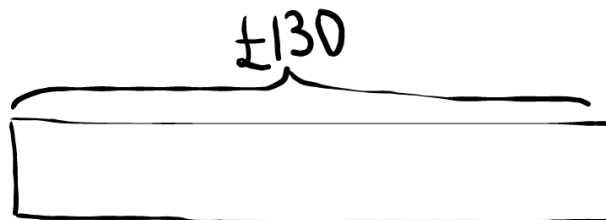Name..

Date...Class...

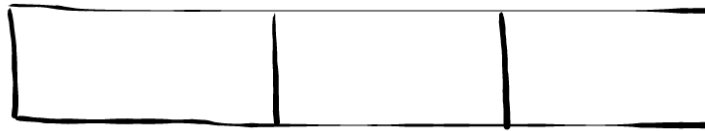In this pack you will meet 3 powerful wizards called Mimm, Merlin and McMiggle.

1. McMiggle has 5,400 leaflets for wizard school. Mimm steals 750 leaflets for herself. McMiggle and Merlin split the rest between them. How many leaflets do McMiggle and Merlin each get?

2. A group of young wizards are paid £130 by Merlin to sort his wizard wands. Each person gets £26. How many people were helping?

3. Merlin and McMiggle are mixing 500ml of potion. Unfortunately, Merlin trips over his beard and spills 0.15L. Merlin and McMiggle share the remaining potion equally between themselves. How much does each wizard get?

_____ ml

4. Mimm's spell book is split into 7 equal chapters. There are 53 pages in total but 4 of these pages are in the prologue, not the chapters. How many pages is each chapter of her spell book?
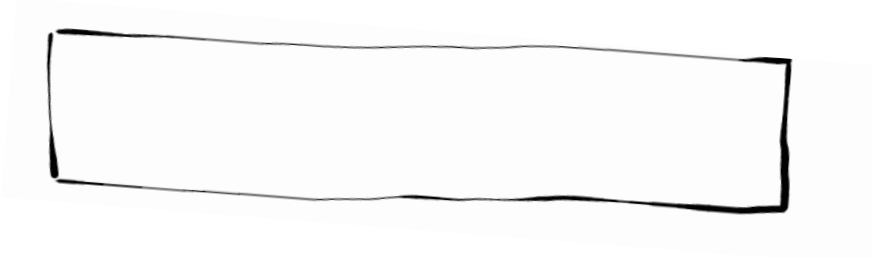
_____

5. Mimm makes spiced pumpkin soup and offers it to her equally mischievous friends. She made 30L of the soup and each person got 600ml. If each person eats $\frac{3}{4}$ of their soup, how much soup would be left in all of the bowls?

_____ ml

6. At the wizard banquet, there are 48 guests from the world of wizardry. They sit in groups of 8 at their tables. How many wizard tables are there?
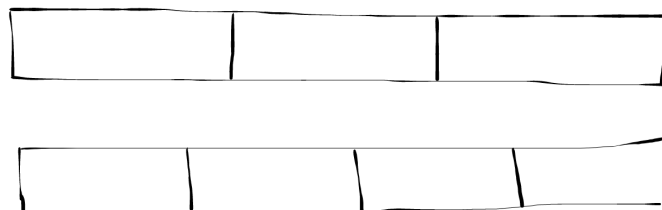
_____

7. Three wands cost the same as two owls. One owl costs £2.55. How much does one wand cost?

owls

wands

£ _____

8. At the wizard banquet, large pizzas cost £6.25 and small pizzas cost £4.94. 4 wizards join together and buy 2 large pizzas and a small pizza. They share the cost equally. How much does each spend?

£ _____

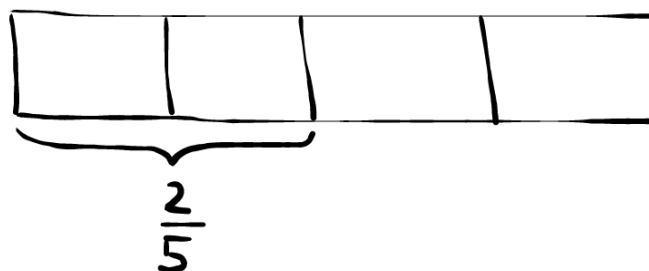**9.** The width of 9 identical wands is 126cm. What is the width of 1 wand?

_____ cm

10. Merlin is being sponsored for the annual wizard race. For every mile he rides on his broomstick, he earns the same amount. He earns £6.75 from riding 9 miles. How many more miles will he need to ride to earn £9?
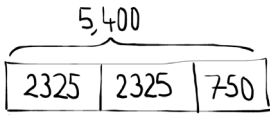

_____ miles

11. Mimm buys three different ingredients for his magic potion. $\frac{2}{5}$ of his ingredients are frog legs.
Half of the rest of his ingredients are dragons' claws. He has 15 rats' tails. How many items does Mimm have altogether?
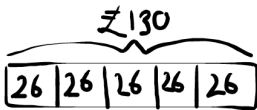

$\frac{2}{5}$

_____

Answers:

1 McMiggle has 5,400 leaflets for wizard school. Mimm steals 750 leaflets for herself. McMiggle and Merlin split the rest between them. How many leaflets do McMiggle and Merlin each get?
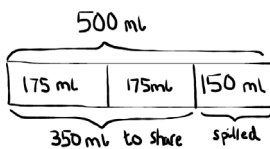

Answer: 2,325
Content: 6C6; 6C4

2 A group of young wizards are paid £130 by Merlin to sort his wizard wands. Each person gets £26. How many people were helping?
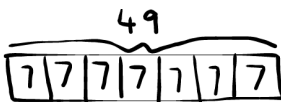

Answer: 5
Content: 6C6; 6C4; 6C8

3 Merlin and McMiggle are mixing 500ml of potion. Unfortunately, Merlin trips over his beard and spills 0.15L. Merlin and McMiggle share the remaining potion equally between themselves. How much does each wizard get?
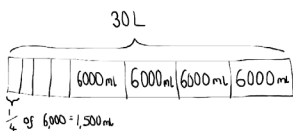

Answer: 175ml
Content: 6C6; 6C4

4 Mimm's spell book is split into 7 equal chapters. There are 53 pages in total but 4 of these pages are in the prologue, not the chapters. How many pages is each chapter of her spell book?
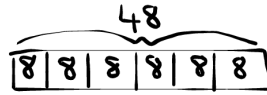

Answer: 7
Content: 6C6; 6C4

5 Mimm makes spiced pumpkin soup and offers it to her equally mischievous friends. She made 30L of the soup and each person got 600ml. If each person eats $\frac{3}{4}$ of their soup, how much soup would be left in all of the bowls?
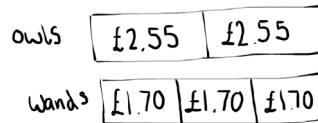

Answer: 7,500 ml (1,500ml x 5)
Content: 6C6; 6C4

6 At the wizard banquet, there are 48 guests from the world of wizardry. They sit in groups of 8 at their tables. How many wizard tables are there?
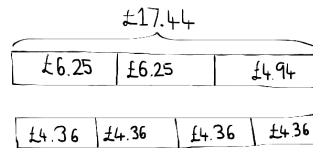

Answer: 6
Content: 6C6; 6C4

7 Three wands cost the same as two owls. One owl costs £2.55. How much does one wand cost?
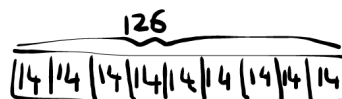

Answer: £1.70
Content: 5M9A; 6A4

8 At the wizard banquet, large pizzas cost £6.25 and small pizzas cost £4.94. 4 wizards join together and buy 2 large pizzas and a small pizza. They share the cost equally. How much does each spend?
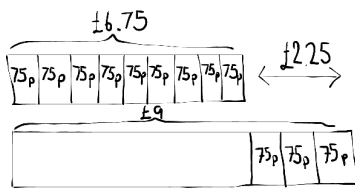

Answer: £4.36
Content: 6C6; 6C4; 6C8

9 The width of 9 identical wands is 126cm. What is the width of 1 wand?
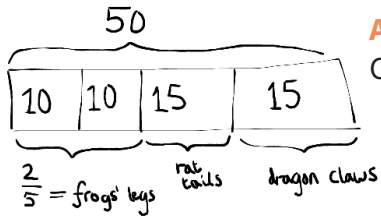

Answer: 14cm
Content: 6C6; 6C4

10 Merlin attends the annual wizard race on broomsticks. For every mile he ride he earns 75p. He earns £6 How many miles did he fly?

£6.75

75p 75p 75p 75p 75p 75p 75p 75p

£2.25

£9

75p 75p 75p

Answer: 3 miles
Content: 6C6; 6C4

11 Mim buys three different ingredients for his magic potion. $\frac{2}{5}$ of his ingredients are frog legs. Half of the rest of his ingredients are dragons' claws. He has 15 rats' tails. How many items does Mim have altogether?

50

| 10 | 10 | 15 | 15 |

$\frac{2}{5}$ = frogs' legs   rat tails   dragon claws

Answer: 50
Content: 6C6; 6C4