

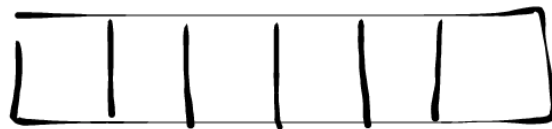
# Let's Practise Using the Bar Model - Multiplication (Year 5)

Name.....

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

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

1. Merlin mixes 6 potions for 5 minutes each. What is the total amount of time it takes to make all the potions?



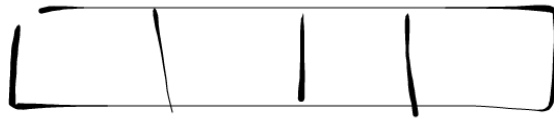
\_\_\_\_\_ mins

2. Mimm's invisibility spell lasts for 7 minutes. How long would she be invisible if she cast the spell 7 times?



\_\_\_\_\_ mins

3. McMiggle measures 1.5m long. He casts a growth spell on himself and increases his height by 4 times. How tall is he now?



\_\_\_\_\_ m

4. Merlin's spell books, which he has had for hundreds of years, weigh 40kg. He has 3 of these books, how much do they weigh all together?



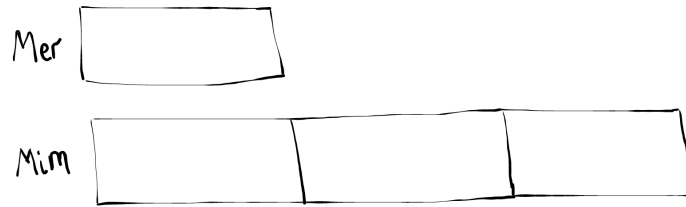
\_\_\_\_\_ kg

5. Mimm and Miggle head off to a wizard's duel (a wizard fight with spells). Mimm, nervous, walks the length of her 0.02km house 10 times. How far does she walk in metres?



\_\_\_\_\_ m

6. Merlin weighs 38kg, Mimm weighs two and a half times as much. How heavy is Mimm?



\_\_\_\_\_ kg

7. Mimm has 137 poison plant seeds. She plants 12 rows of poison seed and places 9 seeds in each row. How many does she have left?



\_\_\_\_\_

8. Merlin's pet dragon measures 8m, he gets three and a half times bigger during battles. What is the dragon's height during battle in centimetres?

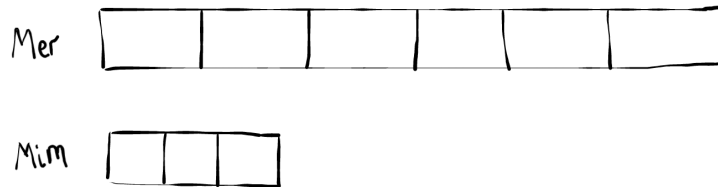


\_\_\_\_\_ cm

9. All wizards need magic charms. Blue charms come in packets of 24. Green charms come in packets of 12. Merlin buys 6 packets of blue charms. Mimm buys 3 packets of green charms.

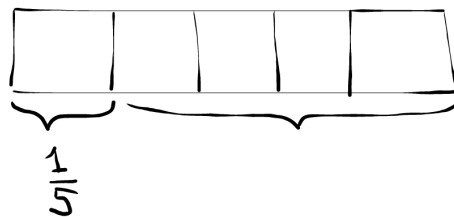
Merlin says "I have four times as many charms as Mimm".

Is he right? Prove it.



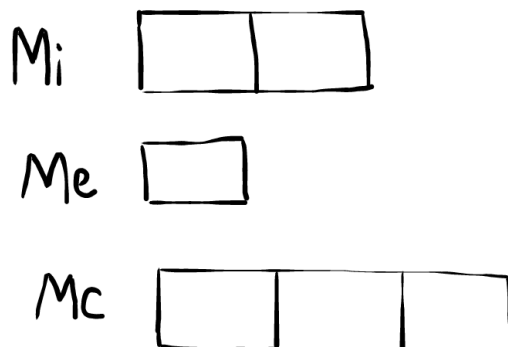
\_\_\_\_\_

10. Merlin reads one fifth of his magic spell book on Saturday and finishes off the other 100 pages on Sunday. How many pages does the spell book have?



\_\_\_\_\_

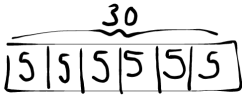
11. Merlin, Mimm and McMiggle have a number of charms between them. Mimm has 24 charms which is twice the number of charms Merlin has. McMiggle has three times more charms than Merlin. How many charms do they have altogether?



\_\_\_\_\_

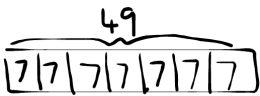
**Answers:**

- 1 Merlin mixes 6 potions for 5 minutes each. What is the total amount of time it takes to make all the potions?



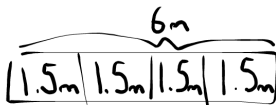
**Answer: 30min**  
Content: 5C6A

- 2 Mimm's invisibility spell lasts for 7 minutes. How long would she be invisible if she cast the spell 7 times?



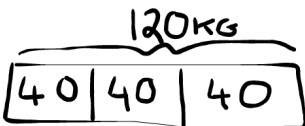
**Answer: 42min**  
Content: 5C6A; 5C8A.

- 3 McMiggle measures 1.5m long. He casts a growth spell on himself and increases his height by 4 times. How tall is he now?



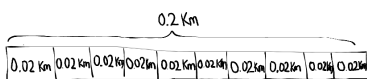
**Answer: 6m**  
Content: 5C6A

- 4 Merlin's spell books, which he has had for hundreds of years, weigh 40kg. He has 3 of these books, how much do they weigh all together?



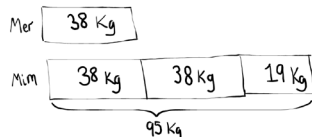
**Answer: 120kg**  
Content: 5C6A

- 5 Mimm and Miggle head off to a wizard's duel (a wizard fight with spells). Mimm, nervous, walks the length of her 0.02km house 10 times. How far does she walk in metres?



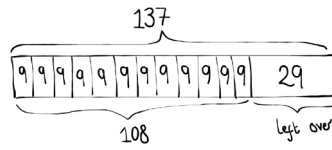
**Answer: 200m**  
Content: 5F10

- 6 Merlin weighs 38kg, Mimm weighs two and a half times as much. How heavy is Mim?



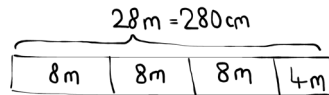
**Answer: 95kg**  
Content: 5C6A

- 7 Mimm has 137 poison plant seeds. She plants 12 rows of poison seed and places 9 seeds in each row. How many does she have left?



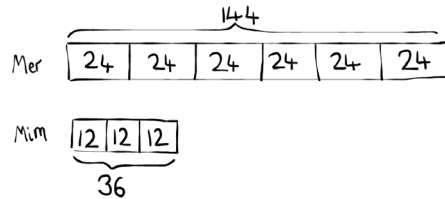
**Answer: 29**  
Content: 5C6A

- 8 Merlin's pet dragon measures 8m, he gets three and a half times bigger during battles. What is the dragon's height during battle in centimetres?



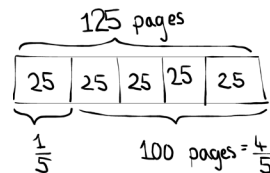
**Answer: 280cm**  
Content: 5C6A

- 9 All wizards need magic charms. Blue charms come in packets of 24. Green charms come in packets of 12. Merlin buys 6 packets of blue charms. Mimm buys 3 packets of green charms. Merlin says "I have four times as many charms as Mimm". Is he right? Prove it.



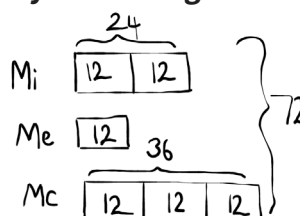
**Answer: Answer: Yes he is correct.  $\frac{36}{144} = \frac{1}{4}$**   
Content: 5C8C

- 10 Merlin reads one fifth of his magic spell book on Saturday and finishes off the other 100 pages on Sunday. How many pages does the spell book have?



**Answer: 125 pages**  
Content: 5C8C

- 11 Merlin, Mimm and McMiggle have a number of charms between them. Mimm has 24 charms which is twice the number of charms Merlin has. McMiggle has three times more charms than Merlin. How many charms do they have altogether?



**Answer: 72**  
Content: 5C8C