Let's Practise Using the Bar Model: Division (Year 5)

Name...

Date...Class...

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

1. Mimm stores all of her 40 poisonous potions in a secret cupboard. She shares them equally between 5 shelves. How many poisonous potions are on each shelf?
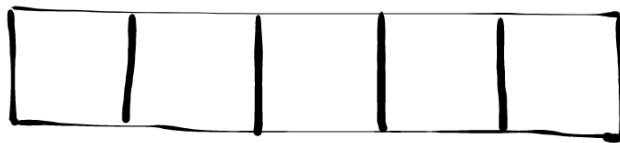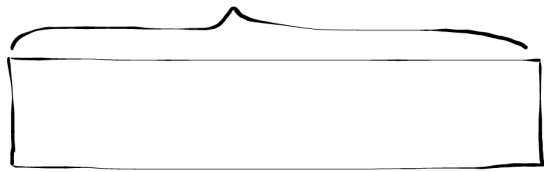

2. McMiggle stores his wand collection in 3 different locations making sure he puts the same amount in each place. He has 120 rare wands. How many wands are in each location?
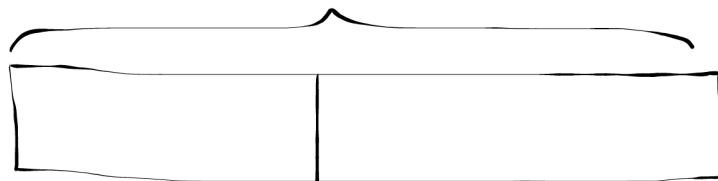
3. Merlin hires a group of friends to clean his old potions room. He gives them £175 in total and each friend earns £25. How many friends do the cleaning?

_____

4. Merlin sent 3 identical letters by owl post. He paid with a £20 note and got £12.50 change. How much did each letter cost to send?
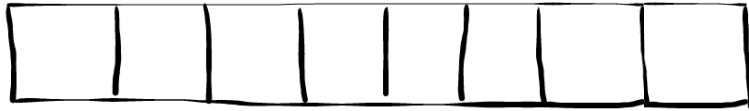
£ _____

5. Mimm mixes a spitfire potion for her pet dragons. She makes 500ml and pours an equal amount into 4 pots. How much is in each pot?
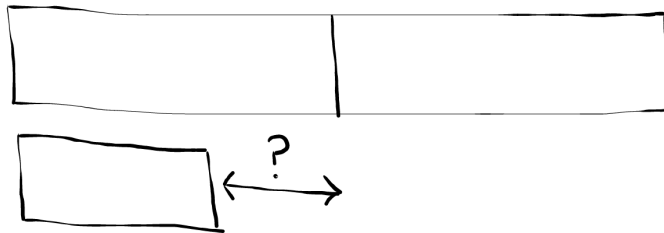
_____ ml

6. At the wand factory, wands are cut to size from mystical wood. The wood is 4m long and cut into 8 equal sections to make 8 wands. How long is each wand in centimetres?
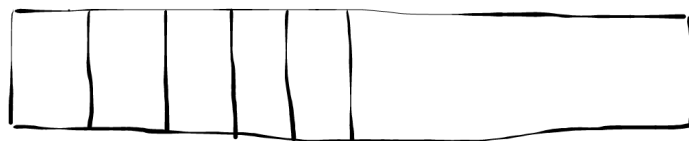
_____ cm

7. Merlin and Mim have 700 megablasts of power which is shared equally between them. McMiggle has 275 megablasts of power. How much more power does Merlin have than McMiggle?

?

_____

8. Merlin's castle is enormous. It covers 60 metres squared. Half the space is taken up by his study and the rest is made up of 5 identical bedrooms. How many metres squared is each room?

_____ m²

9. McMiggle's spell books are stored neatly on his bookshelf. Although there are 6 shelves, one is a little wonky with age. He stores his 42 spell books equally on each shelf. How many books are there on two of his bookshelves?

10. Mimm has caught 16 dragons in her life. Half of those were flame dragons, the others were split equally between two species: ice and water dragons. How many ice dragons has Mimm caught?

11. The wizards have 2,031 leaflets to distribute. Mimm takes two thirds and McMiggle and Merlin split the remaining leaflets between them, with Merlin getting one more than MicMiggle. How many leaflets does Merlin get?
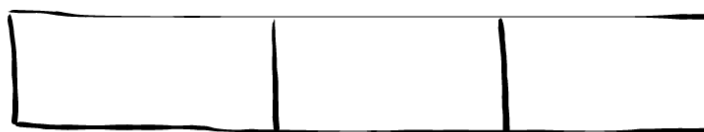
Answers:

1 Mimm stores all of her 40 poisonous potions in a secret cupboard. She shares them equally between 5 shelves. How many poisonous potions are on each shelf?
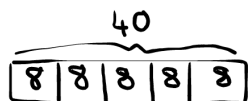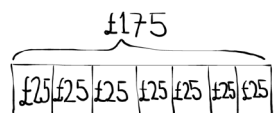
Answer: 8
Content: 5C6A

2 McMiggle stores his wand collection in 3 different locations making sure he puts the same amount in each place. He has 120 rare wands. How many wands are in each location?
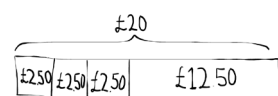
Answer: 40
Content: 5C6A; 5C8A

3 Merlin hires a group of friends to clean his old potions room. He gives them £175 in total and each friend earns £25. How many friends do the cleaning?
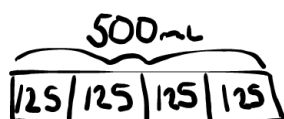
Answer: 7
Content: 4N1; 5C6A

4 Merlin sent 3 identical letters by owl post. He paid with a £20 note and got £12.50 change. How much did each letter cost to send?
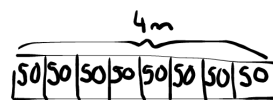
Answer: £2.50
Content: 5C6A

5 Mimm mixes a spitfire potion for her pet dragons. She makes 500ml and pours an equal amount into 4 pots. How much is in each pot?

**Answer: 125ml**
Content: 5C6A; 5C8A

6 At the wand factory, wands are cut to size from mystical wood. The wood is 4m long and cut into 8 equal sections to make 8 wands. How long is each wand in centimetres?

Answer: 50cm
Content: 5C6A; 5C8A

7 Merlin and Mim have 700 megablasts of power which is shared equally between them. McMiggle has 275 megablasts of power. How much more power does Merlin have than McMiggle?
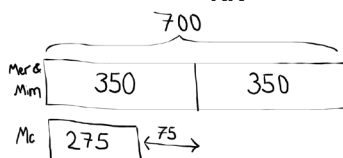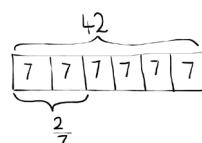
Answer: 75
Content: 5C6A; 5C8A

8 Merlin's castle is enormous. It covers 60 metres squared. Half the space is taken up by his study and the rest is made up of 5 identical bedrooms. How many metres squared is each room?
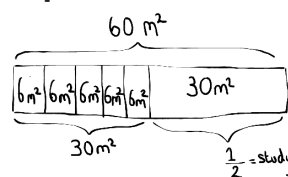
Answer: 6m²
Content: 5C6A

9 McMiggle's spell books are stored neatly on his bookshelf. Although there are 6 shelves, one is a little wonky with age. He stores his 42 spell books equally on each shelf. How many books are there on two of his bookshelves?
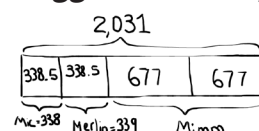
Answer: 14
Content: 5C6A

10 Mimm has caught 16 dragons in her life. Half of those were flame dragons, the others were split equally between two species: ice and water dragons. How many ice dragons has Mimm caught?
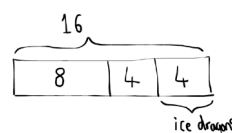
Answer: 4
Content: 5C6A

11 The wizards have 2,031 leaflets to distribute. Mimm takes two thirds and McMiggle and Merlin split the remaining leaflets between them, with Merlin getting one more than McMiggle. How many leaflets does Merlin get?

Answer: 339
Content: 5C6A; 5C8A