Problems of the Day

Day 56

Use bar models to solve all of today's problems



1

Jimmy has some monster cards.
He gives 12 to Sam and 19 to Amy.
He then buys 10 more.
He now has 24 cards.
How many cards did he have at the start?

Jimmy had 45 cards at the start.

2

A box is filled with chocolates and its mass is 480 g.
The same box is now filled with mints and its mass is 350 g.
The chocolates weigh twice as much as the mints.
What is the mass of the box?

The mass of the box is 220 g.

3

3 jugs contain the same amount of juice.

- $\frac{1}{4}$ of the juice is poured from the 1st jug into the 3rd jug.
- 25% of the juice is poured from the 2nd jug into the 3rd jug.
- There is now 480 ml more juice in the 3rd jug than the 1st.

How much juice was in each jug at the start?

There was 640 ml of juice in each jug at the start.

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THE REALLY HORRIBLE CHALLENGE QUESTION

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THE REALLY HORRIBLE CHALLENGE QUESTION



Use a bar

4

David buys a large bag of potatoes.

- He keeps $\frac{4}{9}$ of the potatoes himself.
- He gives his sister $\frac{2}{7}$ of the remaining potatoes.
- He then shares what is left between his mum and dad in the ratio 3 : 7
- His mum receives 1.2 kg of potatoes.

What was the mass of the potatoes that David bought?

10.08kg