Problems of the Day

Day 58

Use bar models to solve all of today's problems



1

Leo and Cooper collect stamps.
Leo has 150 stamps and Cooper has 74 stamps.
Leo gives Cooper some stamps.
Cooper now has 16 more stamps than Leo.

How many stamps did Leo give cooper?

2

Filip, Lisa and Han shared some counters.

Filip has $\frac{1}{4}$ of the counters.

Lisa has $\frac{1}{12}$ of the counters.

Han has the rest.

Filip has 16 more counters than Lisa

How many counters does Han have?

3

Sandip has 280 jumpers and hats to sell in total.

He sells 10% of the jumpers and 20% of the hats.

He now has the same number of jumpers and hats.

How many hats did he have for sale 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

There are some red and blue pencils in two drawers in a classroom.

- In the first drawer the ratio of red to blue pencils is 3 : 5
- In the second drawer the ratio of red to blue is 3 : 1
- Mr Petit moves 50% of the red pencils from the first to the second drawer.
- The number of pencils left in the first drawer is 156
- The ratio of the number of red to blue pencils in the second drawer is now 13 : 3

How many pencils were in the second drawer at the end?