



Mason

I have a 700cm roll of material. I can only make three flags.

- a) Do you agree with Mason? Use reasoning to explain your answer.
- b) Once Mason has made his flags, what fraction of the roll of material is left? Use a bar model to show your working.

3) Mia is reading a magazine with 78 pages.

On Monday, she reads $\frac{2}{6}$ of the magazine.

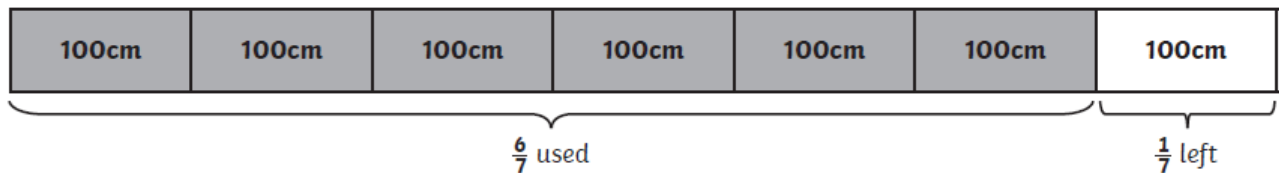
On Tuesday, she reads $\frac{1}{6}$ of the magazine.

On Wednesday, she reads the rest of the magazine.

- a) Explain how you can work out what fraction of the magazine Mia read on Wednesday.
- b) How many pages of the magazine did she read on Wednesday?

Answers:

- 2) a) Mason is wrong as there is enough material to make four flags.
 $150 \times 3 = 450$
Therefore, 450cm of material will be used to create three flags.
 $150 \times 4 = 600$
Therefore, 600cm of material will be used to create four flags.
- b) Mason will use 600cm of material out of 700cm of material. He will have 100cm left. ($700 - 600 = 100$)
This will give a fraction of $\frac{100}{700}$, simplified as $\frac{1}{7}$.



- 3) a) We know what fraction of the magazine Mia read on Monday and Tuesday, so we can use this information to work out what fraction she read on Wednesday.

First, add together the fractions from Monday and Tuesday. Then, subtract this total from the whole. This will give you the fraction of the magazine Mia read on Wednesday.

- b) $\frac{2}{6} + \frac{1}{6} = \frac{3}{6}$ (one half)
 $\frac{1}{2}$ of 78 is 39. ($78 \div 2 = 39$)

She read 39 pages on Wednesday.