# Dividing into a ratio II Lesson 8 of 8

Mathematics

Miss Kidd-Rossiter



## Try this

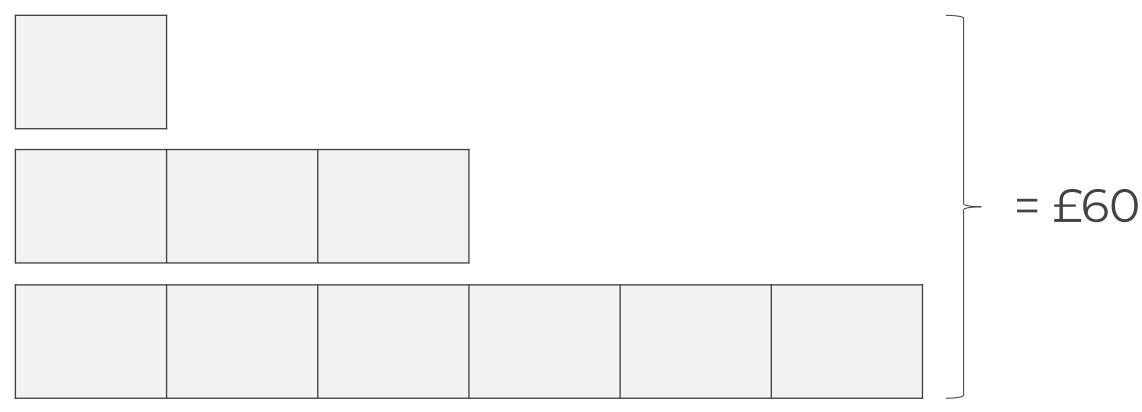
Share £100 between three charities so that each charity gets an exact whole amount of pounds.

Express the sharing as a ratio \_: \_: \_

What fraction of £100 is donated to each charity?

### Connect

We can represent dividing £60 between charities in the ratio 1:3:6 using a bar model.



What is the donation to each charity? What fraction of the total is donated to each charity?



### Connect

Now draw your own bar models to represent dividing £60 between three charities in these ratios:

$$\left[1:2:3\right] \qquad \left[3:4:5\right] \qquad \left[N:N:N\right]$$

What fraction of the largest share is the smallest share?



## Independent task

Share a donation of £120 in each of these ratios.

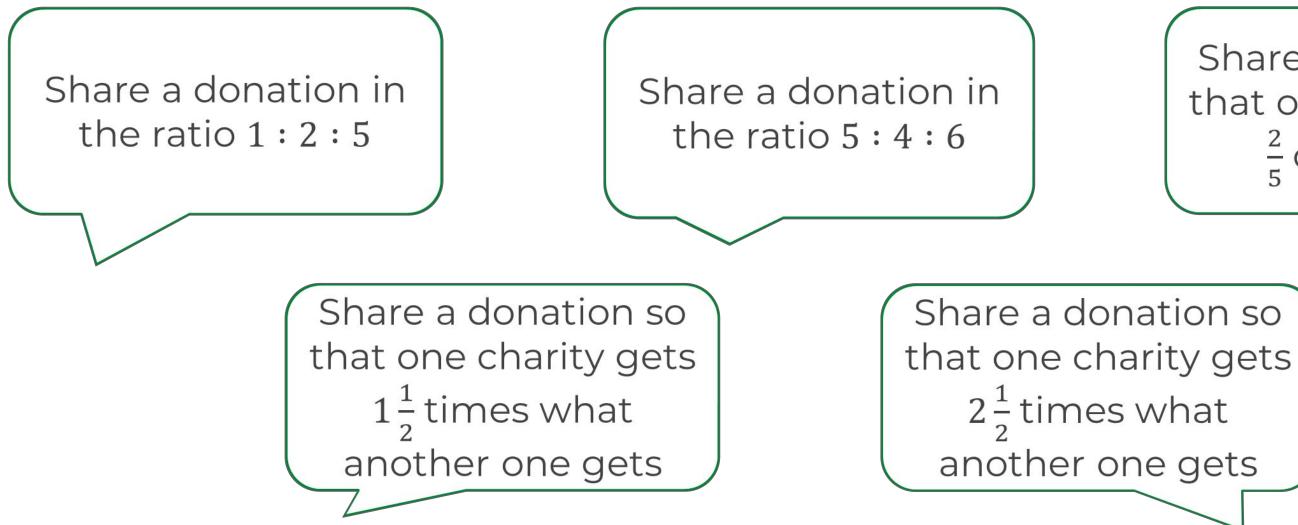
- a. 1:1:2
- b. 1:2:3
- c. 2:2:4
- d. 2:2:2
- e. 2:2:6
- f. n:n:2n
- g. n: 2n: 3n
- h. 2n:2n:2n

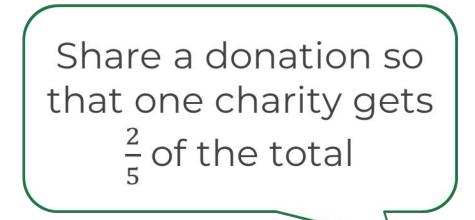
Use bar models to explain your reasoning each time. Can you explain anything you notice?



## Independent task

Match the descriptions of sharing.

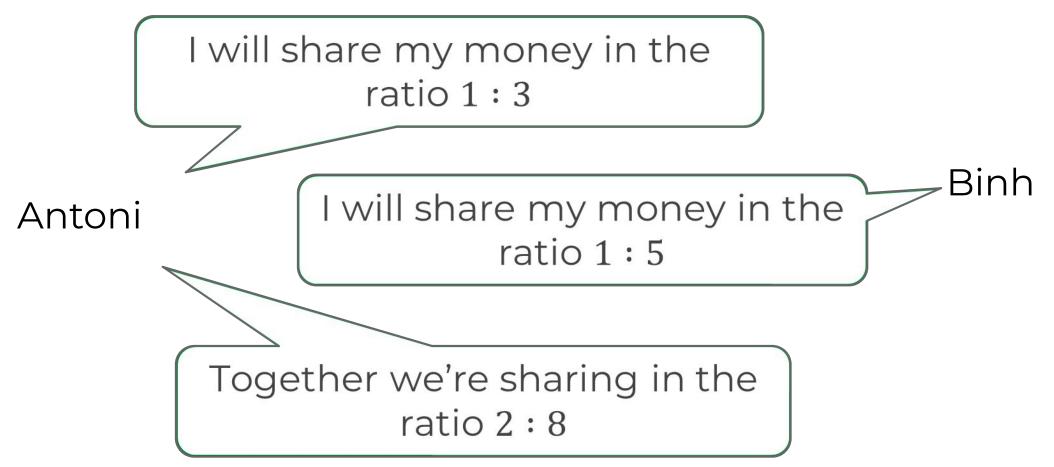






## Explore

Antoni and Binh are each sharing **the same** amount of money between two charities.



Do you agree with Antoni? Explain your reasoning using a bar model.

