## Dividing into a ratio II <br> 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:
$1: 2: 3 \quad 3: 4: 5 \quad N: N: N$

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. $n: n: 2 n$
g. $n: 2 n: 3 n$
h. $2 n: 2 n: 2 n$

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.

