### WRITING A RATIO AS A FRACTION OR LINEAR FUNCTION QUESTIONS

### OCR Thursday 05 November 2020- Morning (Non-Calculator) Foundation Tier

- 1.
- 18 Charlie and Jasmine share cartons of apple juice.

Charlie drinks  $\frac{1}{3}$  of a carton every day.

Jasmine drinks  $\frac{2}{5}$  of a carton every day.

Any apple juice left in a carton at the end of the day is used the following day.

The cost of a carton is 70p. Charlie and Jasmine buy just enough cartons to last them for 10 days.

How much do they spend in total for these cartons? Give your answer in £. Show your working.

## OCR Tuesday 11 June 2019 – Morning (Calculator) Foundation Tier

2.

Write 6:14 as a ratio in its simplest form.

(a) ......[1]

(b) The ratio 20:50 can be written in the form 1:n.

Find the value of n.

# OCR Tuesday 6 November 2018 – Morning (Calculator) Foundation Tier

3.

9 Liu wants to decorate some cakes with shapes.

She has 140 shapes. Each shape is a star or a heart. The ratio of the number of stars : number of hearts is 4 : 3. She wants to put 5 stars and 4 hearts on each cake.

How many cakes can Liu decorate? Show full working to support your answer.

......[5]

## OCR Sample Question Paper 2 – Morning/Afternoon (Non - Calculator) Foundation Tier

4.

13 Eva's camera takes photos with width and height in the ratio 3 : 2. Photos can be printed in the following sizes.

20 cm by 16 cm 14 cm by 10 cm 24 cm by 16 cm 12 cm by 8 cm

Eva says

Only two of these sizes have the same ratio as my photos!

(a) Which sizes have the same ratio as her photos?

(b) Eva has a display board measuring 45 cm by 60 cm. She wants to display postcards, each measuring 9 cm by 6 cm.

If no postcards overlap, find the maximum number of postcards she can display on the board.

(b) ......[3]