

Comparing continued fractions

Teacher notes

Why use this resource?

This problem continues the theme of continued fractions, developing some of the ideas met in [Staircase sequences](#). It provides further opportunity for students to practise manipulating fractions and inequalities, helping them develop a deeper understanding of how to compare fractions and the effect of dividing by a larger or smaller value.

Key question

- If you increase the denominator of a fraction do you reduce or increase the value of the fraction?

Possible support

If students are unsure how to start they can be encouraged to try numerical values for a and b .