

1. Draw continued fraction rectangle diagrams for the following fractions:

a. $24/17$

b. $31/12$

2. Find $16/43$ using a 'rough' drawing without graph paper.

3. Working backwards now, find the following original fractions for:

a. $[2; 1, 1, 2, 7]$

b. $[0; 2, 2, 3, 1, 5]$

4. Prove $\sqrt{3} = [1; 1, 2, 1, 2, 1, 2, \dots]$

5. Prove $\sqrt{14} = [3; 1, 2, 1, 6, 1, 2, 1, 6, \dots]$