Work on these with your partner(s) at the board

1. Find the real number with continued fraction expansion

$$(a)\ x = [3, \overline{3}], \qquad (b)\ x = [\overline{1, 2}], \qquad (c)\ x = [\overline{1, 2, 3}]$$

2. If x has a completely repeating continued fraction expansion, what can you say about x?

3. Find the real number with continued fraction expansion $[1, \overline{3}]$