

1. The usual procedure for converting a mixed number, such as  $7\frac{1}{3}$ , into an improper fraction is this:

$$7\frac{1}{3} = \frac{7 \cdot 3 + 1}{3} = \frac{22}{3}.$$

Explain the logic behind this procedure. (2 MP\*)

(from Beckmann 3.4, practice exercise #3)

2. Calculate  $7\frac{1}{4} - 5\frac{2}{3}$  two different ways. It may help to briefly explain how your solutions are different. A visual method may be one of the choices. (3 MP\*)

a. Method 1:

b. Method 2: