1. Identify some fractions that would fit in the following buckets[1]:

close to 0   close to ½   close to 1
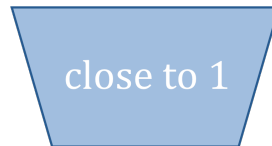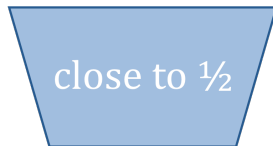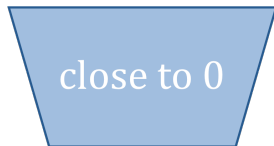
2. For each set of fractions below, circle the fraction that is greater (or if the fractions are equivalent, write "=" in between them), and provide a "sense-making" explanation for how you know[2].

a. $\dfrac{1}{2}$ $\dfrac{17}{31}$ b. $\dfrac{2}{17}$ $\dfrac{2}{19}$ c. $\dfrac{4}{7}$ $\dfrac{9}{14}$ d. $\dfrac{3}{7}$ $\dfrac{6}{11}$ e. $\dfrac{8}{9}$ $\dfrac{12}{13}$

f. $\dfrac{13}{15}$ $\dfrac{17}{19}$ g. $\dfrac{15}{17}$ $\dfrac{19}{18}$ h. $\dfrac{7}{10}$ $\dfrac{8}{9}$ i. $\dfrac{1}{4}$ $\dfrac{25}{99}$ j. $\dfrac{24}{7}$ $\dfrac{34}{15}$

k. $\dfrac{2}{7}$ $\dfrac{3}{8}$ l. $\dfrac{25}{12}$ $\dfrac{31}{15}$ m. $\dfrac{11}{20}$ $\dfrac{19}{36}$ n. $\dfrac{2}{9}$ $\dfrac{3}{8}$ o. $\dfrac{18}{25}$ $\dfrac{16}{27}$

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3. Arrange the following in order from smallest to largest:

$$\frac{1}{200} \qquad \frac{1}{99} \qquad \frac{12}{11} \qquad \frac{1}{4} \qquad \frac{4}{3} \qquad \frac{10}{5}$$

$$\frac{5}{2} \qquad \frac{24}{24} \qquad \frac{5}{4} \qquad \frac{3}{4} \qquad 1 \qquad 0$$