4. [26 pts - items vary] Convert and round as indicated; if not possible, say so.

(a) 5.234 to a fraction

\[
\frac{\times 100}{4711} = \frac{5234}{900} = \frac{4711}{9} 
\]

(b) 3.412441244412... to a fraction

not possible

(c) 47.474474447... to a percent - round to the nearest tenth of a percent

47.474%

(d) 309.00206 to expanded form written with exponents (powers of ten)

\[3 \cdot 10^2 + 9 \cdot 10^0 + 2 \cdot 10^{-3} + 6 \cdot 10^{-5}\]

(e) “Seventeen million six thousand two and forty-nine ten-thousandths” to a fraction

\[
\frac{17,006,002.0049}{10,000} = \frac{170060020049}{10,000}
\]

5. [6 pts] Which is the largest: \(\frac{67}{990}\), 0.067\(\overline{6}\), or 0.06\(\overline{7}\)? Show supporting work, but you need not explain.

\[
\frac{67}{990} = 0.067\overline{7}
\]

0.067\overline{6}

0.067\overline{6}