Converting Fractions to Decimals Challenge

1) Monika is working out the equivalent decimals to $\frac{9}{20}$ and to $\frac{24}{40}$.

$$\frac{9}{20} \times \frac{5}{5} = \frac{45}{100} \text{ or } 0.45$$

I can work out the equivalent decimal to $\frac{9}{20}$ by multiplying the denominator and the numerator by 5. This will give me a fraction with a denominator of 100.

I have tried to use the same method for working out the equivalent decimal to $\frac{24}{40}$ but it doesn't work as the denominator won't make 100 when it is multiplied.

Explain to Monika a strategy that would help her work out the equivalent decimal to $\frac{24}{40}$.

2) Are these statements true or false? Explain your answers using the equivalence between fractions and decimals to help.

a) 0.8 is equivalent to $\frac{24}{40}$

b) $\frac{100}{250} = 0.5$

c) $\frac{6}{8} < 0.85 > \frac{16}{20}$