Activity: Operations in Rational Numbers

A. Perform the following operations and simplify your answers.

1) $\dfrac{2}{3} + \dfrac{7}{2} = \dfrac{2(\Box)+7(\Box)}{(\Box)(\Box)} = \dfrac{\Box+\Box}{\Box} = \dfrac{\Box}{\Box}$

2) $-\dfrac{4}{5} + \dfrac{7}{10} = \dfrac{-4(\Box)+7(\Box)}{(\Box)(\Box)} = \dfrac{\Box+\Box}{\Box} = \dfrac{\Box}{\Box} = \dfrac{\Box}{\Box}$

3) $\dfrac{6}{5} - 5 = \dfrac{(\Box)(\Box)-(\Box)(\Box)}{(\Box)(\Box)} = \dfrac{\Box-\Box}{\Box} = \dfrac{\Box}{\Box}$

4) $-\dfrac{7}{4} - \dfrac{3}{2} = \dfrac{(\Box)(\Box)-(\Box)(\Box)}{(\Box)(\Box)} = \dfrac{\Box-\Box}{\Box} = \dfrac{\Box}{\Box} = \dfrac{\Box}{\Box}$

5) $\dfrac{2}{3} \cdot \left(-\dfrac{7}{4}\right) = \dfrac{\Box}{\Box} = \dfrac{\Box}{\Box}$

6) $-4 \cdot \left(-\dfrac{3}{2}\right) = \dfrac{\Box}{\Box} = \Box$

7) $-\dfrac{3}{4} \div \dfrac{2}{5} = \dfrac{\Box}{\Box}$