* Simplify $\dfrac{\left(\frac{m}{2} + \frac{2m}{3}\right)}{\left(\frac{1}{m} - \frac{m}{2}\right)}$ → ÷

using order of operations

$\dfrac{\frac{(3)m}{(3)2} + \frac{2m(2)}{3(2)}}{\frac{(2)1}{(2)m} - \frac{m(m)}{2(m)}} \rightarrow \dfrac{\frac{3m}{6} + \frac{4m}{6}}{\frac{2}{2m} - \frac{m^2}{2m}} \rightarrow \dfrac{\frac{7m}{6}}{\frac{2-m^2}{2m}}$

$\div \dfrac{\frac{7m}{6}}{\frac{2-m^2}{2m}} = \dfrac{7m}{6} \cdot \dfrac{2m}{2-m^2}$ reciprocal

$= \dfrac{7m}{6} \cdot \dfrac{2m}{2-m^2} = \dfrac{7m}{\cancel{2}3} \cdot \dfrac{\cancel{2}^1 m}{2-m^2}$

$\boxed{\dfrac{7m^2}{3(2-m^2)}} = \boxed{\dfrac{7m^2}{6-3m^2}}$