1. calculate …

   a. $\dfrac{1}{2} \times \dfrac{1}{4}$ b. $\dfrac{2}{3} \times \dfrac{4}{5}$

   c. $\dfrac{3}{2} \times \dfrac{7}{11}$ d. $\dfrac{5}{4} \times \dfrac{3}{8}$

2. calculate and simplify …

   a. $\dfrac{2}{3} \times \dfrac{1}{4}$ b. $\dfrac{4}{5} \times \dfrac{7}{6}$

   c. $\dfrac{5}{4} \times \dfrac{3}{10}$ d. $\dfrac{3}{7} \times \dfrac{2}{3}$

   e. $\dfrac{3}{4} \times \dfrac{4}{5}$ f. $\dfrac{5}{7} \times \dfrac{4}{5}$

3. pay close attention to your simplified answers to 2d , 2e and 2f …
   what do you notice ?…
   can you spot a pattern and use it to do these caclulations with no working ?…

   a. $\dfrac{7}{10} \times \dfrac{3}{7}$ b. $\dfrac{9}{17} \times \dfrac{4}{9}$ c. $\dfrac{31}{38} \times \dfrac{7}{31}$

   d. how would it work with this one ?… $\dfrac{3}{4} \times \dfrac{4}{7}$

   e. write a sentence explaining why this works and create 3 more examples of calculations …

4. use the idea from the 'think' task to do these calculations …
   reflect on your answers as you go …

   a. $\dfrac{2}{9} \times \dfrac{3}{2}$ $\dfrac{4}{3} \times \dfrac{3}{12}$ $\dfrac{10}{13} \times \dfrac{13}{25}$

   b. $\dfrac{4}{15} \times \dfrac{5}{16}$ $\dfrac{14}{25} \times \dfrac{10}{21}$ $\dfrac{8}{27} \times \dfrac{9}{32}$