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|    | 2012 11 23   | 0830-0905   | 5D | Ngai Man's class |
| B1 | concrete manipulative<br>摺紙  | $\frac{n_1}{d_1}$ 的 $\frac{n_2}{d_2} = \frac{n_1}{d_1} \times \frac{n_2}{d_2}$<br>$\Rightarrow$ |    |                  |
|    | T's demo $\rightarrow$ Pair work   | CW1   |    |                  |
|    | linkage: Too slow! how to speed up?  |   |    |                  |
| B2 | Ref: 小學數學科教學資料冊 (第五輯) 分數教學 5N3<br>CW2 worksheet  | T's demo $\rightarrow$ Ps-T demo $\rightarrow$ cooperative task (virtual manipulative)          |    |                  |
|    | obj: How does $\frac{n_1}{d_1} \times \frac{n_2}{d_2}$ operate? check soln by ggb                                      |   |    |                  |
| B3 | Practices worksheet  |   |    |                  |
|    | demo $\rightarrow$ CW3/HW  |   |    |                  |
|    | obj: Any short-cut?<br>How about $i > 2$ ? ( $\prod \frac{n_i}{d_i}$ )<br>How about the involvement of integer?<br>--- |   |    |                  |
|    | Compare & contrast integer multiplication & fraction multiplication  |   |    |                  |

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|  | 2012 11 23  | 0830-0905  | 5D | Nga Man's class                        |
| B1<br>動態圖畫<br>摺紙<br>40/0   | concrete manipulative<br>$\frac{2}{3} \times \frac{4}{5}$<br>摺紙<br>$\frac{3}{4} \times \frac{1}{2}, \frac{1}{3} \times \frac{2}{3}$   | $\frac{n_1}{d_1}$ 的 $\frac{n_2}{d_2} = \frac{n_1}{d_1} \times \frac{n_2}{d_2}$<br>$\Rightarrow \frac{n_1}{d_1} \times \frac{n_2}{d_2}$ 即 $\frac{n_1}{d_1}$ 的 $\frac{n_2}{d_2}$ |    |  |
| worksheet words  | T's demo $\rightarrow$ Pair work  | CW1  |    | 明白 $\rightarrow$ 便可以<br>用摺紙方法找出分數相乘的答案 |
| technology exploration<br>indiv diff                               | linkage: Too slow! how to speed up?   |  |    |  |
| B2   | Ref: 小學數學科教學資料冊 (第五輯) 分數教學 5N3<br>CW2 worksheet   | T's demo $\rightarrow$ Ps-T demo $\rightarrow$ cooperative task (virtual manipulative)   |    |  |
| STOP $\rightarrow$<br>莊守恩<br>$\frac{3}{5} \frac{7}{9} \frac{1}{6}$ | obj: How does $\frac{n_1}{d_1} \times \frac{n_2}{d_2}$ operate? check soln by ggb<br>由歸納至演繹   |  |    |  |
| CD $\checkmark$ B3   | Practices worksheet   |  |    |  |
|  | demo $\rightarrow$ CW3/HW   |  |    |  |
|  | obj: Any short-cut? 約簡<br>How about $i > 2$ ? ( $\prod \frac{n_i}{d_i}$ ) $((f_1 \times f_2) \times f_3) \times f_4 \times \dots$<br>How about the involvement of integer? $<$ 假分數<br>--- |  |    |  |
|  | Compare & contrast integer multiplication & fraction multiplication   |  |    | product magnitude                      |
| 摺紙   | $\frac{3}{5} \times \frac{1}{6}$ 1的 $\frac{3}{5}$ $\rightarrow$ $\frac{3}{5}$ 的 $\frac{1}{6}$ $\rightarrow$ 1的 $\frac{1}{6}$ $\rightarrow$ $\frac{3}{30} = \frac{1}{10}$                  |  |    | 應簡要說明<br>一直一橫的原因                       |
| 疊方格  | $\frac{1}{2} \times \frac{1}{3}$ 1的 $\frac{1}{2}$ $\rightarrow$ $\frac{1}{2}$ 的 $\frac{1}{3}$ $\rightarrow$ 1的 $\frac{1}{3}$ $\rightarrow$ $\frac{1}{6}$                                  |  |    |  |
| ggb  | $\frac{2}{3} \times \frac{1}{3}$ G B:程 $\frac{2}{9}$<br>$\frac{5}{7} \times \frac{1}{2}$ $\frac{5}{14}$   |  |    |  |