

C: Multiplying Proper Fractions

1. Cross Reduce

Top x Top; Bot x Bot

3. Reduce if you can.

Example:

1. Determine the product.

$$a) \frac{5}{7} \times \frac{1}{2} \quad \begin{array}{l} 5 \times 1 \\ 7 \times 2 \end{array}$$

$$= \frac{5}{14}$$

$$b) \frac{1}{4} \times \frac{6}{7}$$

$$= \frac{3}{14}$$

$$c) \frac{3}{4} \times \frac{2}{3}$$

$$= \frac{1}{2}$$

~~scribbles~~

$$d) \frac{3}{16} \times \frac{8}{9}$$

$$= \frac{1}{6}$$

$$e) \frac{1}{3} \times \frac{1}{3} \times \frac{1}{3}$$

$$= \frac{1}{27}$$

$$f) \frac{9}{8} \times \frac{9}{8} \times \frac{2}{8}$$

$$\frac{9}{8} \times \frac{3}{4} \times \frac{1}{4}$$

$$= \frac{27}{32}$$

$$g) \frac{5}{6} \times \frac{7}{8} \times \frac{7}{10}$$

$$= \frac{5}{2} \times \frac{1}{8} \times \frac{7}{10}$$

$$= \frac{5}{2} \times \frac{7}{16} \times \frac{1}{8}$$

$$= \frac{1}{2} \times \frac{7}{2} \times \frac{1}{8}$$

$$= \frac{7}{32}$$

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