7.2 Multiplying Fractions

① Multiply numerators

② Multiply denominators

③ Simplify!

* Simplify, reduce, cross cancel before multiplying (NUMBERS IN BOTH NUMERATOR & DENOMINATOR MUST BE DIVISIBLE BY SAME #)
* No LCD is needed when multiplying.

$2 \times \frac{3}{4} =$

$\frac{2}{1} \times \frac{3}{4} = \frac{6}{4} = 1\frac{2}{4} = 1\frac{1}{2}$

$\frac{5}{6} \times 9$

$\frac{5}{\cancel{6}_2} \times \frac{\cancel{9}^3}{1} = \frac{5}{2} \times \frac{3}{1} = \frac{15}{2} = 7\frac{1}{2}$

p. 314: #s 1-4

① $\frac{9}{10}$

$8\overline{)27}$ -24 3 — 3

② $9 \times \frac{3}{8} = \frac{9}{1} \times \frac{3}{8} = \frac{27}{8} = 3\frac{3}{8}$

③ $8\frac{2}{5}$

④ $2\frac{1}{2}$

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2. Multiply denominators
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$$\frac{1}{2}\frac{\cancel{3}}{\cancel{8}} \times \frac{\cancel{4}^{1}}{\cancel{9}_{3}} = \frac{1}{2}\frac{\cancel{3}^{1} \times \cancel{4}^{1}}{8 \times \cancel{9}_{3}} = \frac{1}{2} \times \frac{1}{3}$$

$$\frac{1}{2}\frac{\cancel{5}}{\cancel{10}} \times \frac{7}{18} =$$

$$\frac{\cancel{4}^{1}}{5\,\cancel{10}} \times \frac{\cancel{2}^{1}}{\cancel{4}_{1}}$$

P. 321 #s 4-7

④ $\frac{1}{18}$ $\frac{1}{5}$ of $\frac{3}{4}$

⑤ $\frac{3}{28}$ $\frac{3}{7} \times \frac{1}{4} = \frac{3}{28}$

⑥ $\frac{9}{20}$ $x = \frac{4}{9}$

⑦ $\frac{8}{27}$ $\frac{2}{3}x = \frac{2}{3} \times \frac{4}{9} = \frac{8}{27}$

In Class:

p. 315-316 #s 1-26 ODD

p. 323 #s 1-22 ODD