

T-MF Math Fundamentals Week 14 12/13

$$\frac{3}{7} * \frac{1}{4} = \boxed{\frac{3}{28}}$$

$$\frac{2}{5} * \frac{3}{8} = \boxed{\frac{3}{20}}$$

$$\frac{4}{10} * \frac{5}{16} = \frac{2}{2} * \frac{1}{4} = \frac{1}{2} * \frac{1}{4} = \boxed{\frac{1}{8}}$$

$$\frac{1}{2} * \frac{1}{4} = \boxed{\frac{1}{8}}$$

$$\frac{4}{2} * \frac{1}{16} = \frac{2}{1} * \frac{1}{16} = \frac{1}{8}$$

1.) $\frac{3}{4} * \frac{6}{9} = \frac{1}{2} * \frac{2}{3} = \frac{1}{2} * \frac{1}{1} = \boxed{\frac{1}{2}}$

2.) $\frac{2}{10} * \frac{5}{8} = \frac{1}{5} * \frac{1}{8} = \frac{1}{40}$

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

$$\frac{1}{2} * \frac{3}{3} = \frac{1}{2} * 1 = \frac{1}{2}$$

$$\frac{2}{2} * \frac{1}{8} = \frac{1}{1} * \frac{1}{8} = \frac{1}{8}$$

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

3.) $\frac{12}{20} * \frac{15}{18} = \frac{3}{5} * \frac{5}{6} = \frac{1}{2} * \frac{1}{1} = \frac{1}{2}$

$$\frac{2}{4} * \frac{3}{3} = \frac{1}{2} * 1 = \frac{1}{2}$$

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

$$\frac{2}{4} * \frac{3}{3} = \frac{1}{2} * 1 = \frac{1}{2}$$

$$\frac{3}{1} * \frac{1}{4} = \frac{3}{4}$$

$$\frac{2}{1} * \frac{6}{1} = \frac{12}{1} = 12$$

$$\frac{1}{1} * \frac{3}{1} = \frac{3}{1} = 3$$

$$\frac{9}{1} * \frac{2}{3} = \frac{18}{3} = 6$$

$$\frac{3}{1} * \frac{2}{1} = \frac{6}{1} = 6$$

1.) $\frac{6}{1} * \frac{9}{1} = \frac{54}{1} = 54$

$$\frac{1}{2} * \frac{3}{1} = \frac{3}{2}$$

2.) $\frac{8}{1} * \frac{2}{5} = \frac{16}{5}$

$$3 \frac{1}{5}$$

$$2 \frac{1}{3} * \frac{1}{2}$$

MUST FIRST CONVERT
MIXED NUMBER TO
IMPROPER FRACTION!!

$$2 \frac{1}{3} = \frac{(2 * 3) + 1}{3} = \frac{6 + 1}{3} = \frac{7}{3}$$

$$2 \frac{1}{3} * \frac{1}{2} = \frac{7}{3} * \frac{1}{2} = \frac{7}{6}$$

$$2\frac{1}{3}$$



$$\frac{7}{3}$$

$$2\frac{1}{3} = \frac{(2 * 3) + 1}{3} = \frac{6 + 1}{3} = \frac{7}{3}$$

$$3\frac{4}{5} * \frac{1}{3}$$

$$3\frac{4}{5} = \frac{(3 * 5) + 4}{5} = \frac{15 + 4}{5} = \frac{19}{5}$$

$$\downarrow \begin{array}{c} \xrightarrow{\quad} \\ \frac{19}{5} * \frac{1}{3} \\ \xrightarrow{\quad} \end{array} = \boxed{\frac{19}{15}}$$

$$2\frac{1}{6} = \frac{(2 * 6) + 1}{6} = \frac{12 + 1}{6} = \frac{13}{6}$$

$$2\frac{1}{6} * 3\frac{2}{7}$$

$$3\frac{2}{7} = \frac{(3 * 7) + 2}{7} = \frac{21 + 2}{7} = \frac{23}{7}$$

$$\downarrow \begin{array}{c} \xrightarrow{\quad} \downarrow \\ \frac{13}{6} * \frac{23}{7} \\ \xrightarrow{\quad} \end{array} = \boxed{\frac{299}{42}}$$

$$2\frac{3}{5} = \frac{(2 * 5) + 3}{5} = \frac{13}{5}$$

$$2\frac{3}{5} * 4\frac{1}{2}$$

$$4\frac{1}{2} = \frac{(4 * 2) + 1}{2} = \frac{9}{2}$$

$$\downarrow \begin{array}{c} \xrightarrow{\quad} \downarrow \\ \frac{13}{5} * \frac{9}{2} \\ \xrightarrow{\quad} \end{array} = \boxed{\frac{117}{10}}$$

Dividing Fractions

Keep
change
Flip!

$$\frac{6}{1} \div \frac{1}{4}$$

Keep ↓ change ↓ flip (↘) $\left(\frac{1}{4}\right) \rightarrow \left(\frac{4}{1}\right)$

$$\frac{6}{1} * \frac{4}{1} = \frac{24}{1} = \boxed{24}$$

Keep change
Flip!

$$\frac{1}{4} \div \frac{6}{1}$$

$$\frac{1}{4} * \frac{1}{6} = \boxed{\frac{1}{24}}$$

Do not
reduce first!

Keep change Flip!

$$\frac{5}{8} \div \frac{10}{24}$$

↓ ↓ ↓

$$\frac{5}{8} * \frac{24}{10}$$

1 5 24 10 5

$$\frac{1}{8} * \frac{24}{2} = \frac{3}{2}$$

Now Reduce

$$\frac{1}{1} * \frac{3}{2} = \boxed{\frac{3}{2}}$$

1.)

$$\begin{array}{ccc} \frac{2}{3} & \cdot & \frac{6}{1} \\ \downarrow & & \downarrow \\ \frac{2}{3} & * & \frac{1}{6} \end{array}$$

$\frac{2}{3} * \frac{1}{6} = \frac{1}{9}$

2.)

$$\begin{array}{ccc} \frac{2}{7} & \cdot & \frac{8}{14} \\ \downarrow & & \downarrow \\ \frac{2}{7} & * & \frac{14}{8} \end{array}$$

$\frac{2}{7} * \frac{14}{8} = \frac{1}{2}$