

T-MF Math Fundamentals Week 13 12/6

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

$\frac{1}{4} + \frac{2}{3}$

$$\frac{1}{4} \xrightarrow{*3} \frac{3}{12}$$

$$\frac{2}{3} \xrightarrow{*4} \frac{8}{12}$$

$$3 \frac{3}{12} + 5 \frac{8}{12} = 8 \frac{11}{12}$$

$$8 \frac{5}{8} - 3 \frac{2}{5}$$

$$8 \frac{25}{40} - 3 \frac{16}{40}$$

$$5 \frac{9}{40}$$

$$\frac{5}{8} \xrightarrow{*5} \frac{25}{40}$$

$$\frac{2}{5} \xrightarrow{*8} \frac{16}{40}$$

$$5 \frac{9}{40}$$

- 5: 5, 10, 15, 20, 25, 30, 35, 40, ...
- 8: 8, 16, 24, 32, 40, 48, ...
- ① ② ③ ④ ⑤

$$\frac{1}{8} + \frac{1}{6}$$

$$\frac{2}{24} + \frac{4}{24} = \frac{6}{24}$$

$$\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

$$4 \frac{1}{2} - 2 \frac{2}{3}$$

$$4 \frac{3}{6} - 2 \frac{4}{6}$$

$$1 \frac{5}{6}$$

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

$$\frac{2}{3} \xrightarrow{*2} \frac{4}{6}$$

$$4 \frac{3}{6} - 2 \frac{4}{6} = 1 \frac{5}{6}$$

- 2: 2, 4, 6, 8, 10, 12, ...
- 3: 3, 6, 9, 12, 15, ...

1.) $6\frac{1}{3} + 3\frac{6}{7}$

$\frac{1}{3} + \frac{6}{7}$

$\frac{1}{3} = \frac{7}{21}$ (*7)

$\frac{6}{7} = \frac{18}{21}$ (*3)

$\frac{7}{21} + \frac{18}{21} = \frac{25}{21}$

$6 + 3 + 1\frac{4}{21}$

$10\frac{4}{21}$

2.) $9\frac{1}{6} - 5\frac{3}{4}$

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

$\frac{3}{4} = \frac{9}{12}$ (*3)

$9\frac{2}{12} - 5\frac{9}{12}$

$8\frac{14}{12} - 5\frac{9}{12}$

$3\frac{5}{12}$

Multiplying Fractions

$\frac{3}{4} * \frac{3}{5} = \frac{9}{20}$

$\frac{3}{7} * \frac{4}{9} = \frac{12}{63} = \frac{4}{21}$

(Note: 3 and 9 are crossed out, 12 and 63 are divided by 3)

$\frac{1}{7} * \frac{4}{3} = \frac{4}{21}$

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

(Note: 2 and 2 are crossed out, 6 is divided by 2)

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

$\frac{12}{18} * \frac{9}{24} = \frac{108}{432} = \frac{1}{4}$

(Note: 12 and 24 are crossed out, 18 and 9 are divided by 12)

$\frac{1}{18} * \frac{9}{24} = \frac{9}{432} = \frac{1}{48}$

(Note: 9 and 24 are crossed out, 432 is divided by 9)

$\frac{12}{18} * \frac{9}{24} = \frac{108}{432} = \frac{1}{4}$

(Note: 108 and 432 are divided by 108)

$$1.) \frac{4}{5} * \frac{1}{3} = \boxed{\frac{4}{15}}$$

$$2.) \frac{3}{8} * \frac{2}{7} = \boxed{\frac{3}{28}}$$

$$3.) \frac{2}{4} * \frac{1}{4} = \boxed{\frac{1}{8}}$$

$$4.) \frac{8}{12} * \frac{8}{20} = \boxed{\frac{2}{5}}$$