

1.) $0.555\dots = \boxed{\frac{5}{9}}$

2.) $0.787878\dots = \frac{78 \div 3}{99 \div 3} = \boxed{\frac{26}{33}}$

3.) $0.\overline{3} = \boxed{\frac{3}{9}}$

4.) $0.423423423\dots = \frac{423 \div 9}{999 \div 9} = \boxed{\frac{47}{111}}$

$0.823333\dots$

$n = 0.823333\dots$

~~$1000n = 823.333\dots$
 $-100n = 82.3333\dots$~~

$\frac{900n}{900} = \frac{741}{900}$

$n = \frac{741 \div 3}{900 \div 3} = \boxed{\frac{247}{300}}$

$0.8\overline{3} = 0.83333\dots$

$n = 0.83333\dots$

~~$100n = 83.333\dots$
 $-10n = -8.333\dots$~~

$\frac{90n}{90} = \frac{75}{90}$

$n = \frac{75 \div 15}{90 \div 15} = \boxed{\frac{5}{6}}$

$0.823333\dots$

$0.823333\dots$

$0.83333\dots$

$0.83333\dots$

$0.83333\dots$

$$4\frac{3}{7} + 2\frac{11}{14}$$

$$\frac{3}{7} + \frac{11}{14}$$

$$\frac{11}{14} + \frac{6}{14} = \frac{17}{14} = 1\frac{3}{14}$$

$$6 + 1\frac{3}{14} = \boxed{7\frac{3}{14}}$$

$$\frac{3}{7} \xrightarrow{\times 2} \frac{6}{14}$$
$$\frac{11}{14} = \frac{11}{14}$$

$$3\frac{5}{8}$$
$$- 1\frac{5}{6}$$

$$2\frac{15}{24} + \frac{24}{24}$$
$$- 1\frac{20}{24}$$

$$\boxed{1\frac{19}{24}}$$

$$\frac{5}{8} - \frac{5}{6}$$
$$\frac{5}{8} \xrightarrow{\times 3} \frac{15}{24}$$
$$\frac{5}{6} \xrightarrow{\times 4} \frac{20}{24}$$
$$\frac{15}{24} - \frac{20}{24} = -\frac{5}{24}$$
$$2\frac{39}{24} - 1\frac{20}{24} = \boxed{1\frac{19}{24}}$$

6, 12, 18, 24, 30, 36, ...
8, 16, 24, 32, 40, ...

$$\frac{7}{9} \times \frac{3}{7} = \frac{21}{63} \xrightarrow{\div 21} \frac{1}{3}$$

$$\frac{7}{9} \times \frac{3}{7} = \frac{1}{3}$$

$$\frac{1}{9} \times \frac{3}{1} = \frac{3}{9} \xrightarrow{\div 3} \frac{1}{3}$$

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

$$\frac{9}{20} \times \frac{4}{15} = \frac{36}{300} \xrightarrow{\div 3} \frac{12}{100} \xrightarrow{\div 4} \frac{3}{25}$$

$$\frac{3}{20} \times \frac{4}{5} = \frac{12}{100} \xrightarrow{\div 4} \frac{3}{25}$$

$$\frac{3}{5} \times \frac{1}{5} = \frac{3}{25}$$

$$5 \frac{1}{7} * 4 \frac{2}{3}$$

$$\downarrow \quad \downarrow$$

$$\frac{36}{7} * \frac{14}{3}$$

MUST convert mixed number into an improper fraction.

$$\frac{5 \text{ (circled)} \cdot 7 \text{ (circled)} + 1 \text{ (circled)}}{7} =$$

$$\frac{(5 * 7) + 1}{7} = \frac{35 + 1}{7} = \frac{36}{7}$$

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

$$\downarrow$$

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

$$\frac{5(7) + 1}{7}$$

$$4 \frac{2}{3} = \frac{(4 * 3) + 2}{3} = \frac{12 + 2}{3} = \frac{14}{3}$$

$$\frac{36}{7} * \frac{14}{3} \div 7$$

$$\frac{36}{1} * \frac{2}{3} \div 3$$

$$\frac{12}{1} * \frac{2}{1} = \frac{24}{1}$$

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Keep change Flip!

$$\frac{3}{8} \div \left(\frac{9}{16} \right) \text{ flip}$$

$$\downarrow \quad \downarrow \quad \downarrow$$

$$\frac{3}{8} * \frac{16}{9}$$

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

$$6\frac{1}{8} \div \frac{7}{3}$$

1.) Convert mixed number to improper fraction

2.) Keep, Change, Flip

3.) Reduce (if you can)

4.) Multiply

$$6\frac{1}{8} = \frac{(6 \times 8) + 1}{8} = \frac{48 + 1}{8} = \frac{49}{8}$$

$$\frac{49}{8} \div \frac{7}{3}$$

$$\frac{49}{8} \times \frac{3}{7} = \frac{7 \times 7}{8} \times \frac{3}{7}$$

$$= \frac{7}{8} \times \frac{3}{1} = \frac{21}{8}$$