

## WEEK 2

Monday

$$\begin{array}{r} 5463 \\ 7372 \\ \hline 12835 \end{array} + \begin{array}{r} 4274 \\ 1128 \\ \hline 3086 \end{array} - \begin{array}{r} 36 \\ 65 \\ \hline 180 \\ 1860 \\ \hline 2040 \end{array} \times \begin{array}{r} 1016 \\ 7713 \\ \hline \end{array} \begin{array}{l} 3 \text{ of } 36 = 27 \\ 4 \\ \hline 1 = 9 \\ 4 \\ \hline 9 \times 3 = 27 \end{array}$$

Tuesday

$$\begin{array}{r} 7463 \\ 2459 \\ \hline 9922 \end{array} + \begin{array}{r} 3211 \\ 4821 \\ 2332 \\ \hline 1989 \end{array} - \begin{array}{r} 84 \\ 52 \\ \hline 168 \\ 4200 \\ \hline 4368 \end{array} \times \begin{array}{r} 3281 \\ 3985 \\ \hline \end{array} \begin{array}{l} 2 \text{ of } 55 = 22 \\ 5 \\ \hline 1 = 11 \\ 5 \\ \hline 11 \times 2 = 22 \end{array}$$

Wednesday

$$\begin{array}{r} 2830 \\ 7301 \\ \hline 10131 \end{array} + \begin{array}{r} 712 \\ 8302 \\ 4382 \\ \hline 3920 \end{array} - \begin{array}{r} 97 \\ 92 \\ \hline 194 \\ 8730 \\ \hline 8924 \end{array} \times \begin{array}{r} 142 \\ 6852 \\ \hline \end{array} \begin{array}{l} 2 \text{ of } 96 = 64 \\ 3 \\ \hline 1 = 32 \\ 3 \\ \hline 32 \times 2 = 64 \end{array}$$

Thursday

$$\begin{array}{r} 4543 \\ 05621 \\ \hline 10164 \end{array} + \begin{array}{r} 3 \\ 295 \\ 1502 \\ \hline 2793 \end{array} - \begin{array}{r} 88 \\ 54 \\ \hline 352 \\ 4400 \\ \hline 4752 \end{array} \times \begin{array}{r} 145 \\ 5725 \\ \hline \end{array} \begin{array}{l} 5 \text{ of } 72 = 60 \\ 6 \\ \hline 1 = 12 \\ 6 \\ \hline 12 \times 5 = 60 \end{array}$$

Friday

$$\begin{array}{r} 8239 \\ 9345 \\ \hline 17584 \end{array} + \begin{array}{r} 29 \\ 6801 \\ 3028 \\ \hline 3273 \end{array} - \begin{array}{r} 95 \\ 36 \\ \hline 570 \\ 2850 \\ \hline 3420 \end{array} \times \begin{array}{r} 106 \\ 9954 \\ \hline \end{array} \begin{array}{l} 9 \text{ of } 60 = 54 \\ 10 \\ \hline 1 = 6 \\ 10 \\ \hline 6 \times 9 = 54 \end{array}$$

### Activity 1 – Improper Fractions to Mixed Numbers

Convert these improper fractions to mixed numbers

$$\frac{12}{7} = 1\frac{5}{7}$$

$$\frac{19}{6} = 3\frac{1}{6}$$

Spot the mistake

	Correction	Explain the mistake
$\frac{27}{3} = 8$	9	Incorrect division $27 \div 3 = 9$
$\frac{27}{5} = 5\frac{1}{5}$	$5\frac{2}{5}$	Incorrect remainders $27 \div 5 = 5r2$
$\frac{27}{4} = 5\frac{7}{4}$	$6\frac{3}{4}$	still an improper fraction

Do you agree? Why?

Amir says,

$\frac{28}{3}$  is less than  $\frac{37}{5}$   
because 28 is less than  
37



$$\frac{28}{3} = 9\frac{1}{3} \quad \frac{37}{5} = 7\frac{2}{5}$$

Disagree because  $\frac{28}{3}$   
has more wholes when  
turned into a mixed number.

## Activity 2 – Mixed Numbers to Improper Fractions

Convert these mixed numbers to improper fractions

$$5 \frac{2}{3} = \frac{17}{3}$$

$$2 \frac{7}{9} = \frac{25}{9}$$

Find them all:

How many different possibilities can you find for each equation?

$$2 \frac{\square}{8} = \frac{\square}{8}$$

$$2 \frac{1}{8} = \frac{17}{8} \quad 2 \frac{2}{8} = \frac{18}{8} \quad 2 \frac{3}{8} = \frac{19}{8}$$

$$2 \frac{4}{8} = \frac{20}{8} \quad 2 \frac{5}{8} = \frac{21}{8} \quad 2 \frac{6}{8} = \frac{22}{8}$$

$$2 \frac{7}{8} = \frac{23}{8}$$

$$2 \frac{\square}{5} = \frac{\square}{5}$$

$$2 \frac{1}{5} = \frac{11}{5} \quad 2 \frac{2}{5} = \frac{12}{5} \quad 2 \frac{3}{5} = \frac{13}{5}$$

$$2 \frac{4}{5} = \frac{14}{5}$$

Challenge:

Ryan has these numbers:

9   3   15   10   4

- a) He wants to use two cards to make an improper fraction that is as close to  $4\frac{1}{3}$  as possible. What fraction should he make?

$\frac{15}{3}$

- b) Ryan now wants to use two cards to make an improper fraction that is as close to 4 as possible. What should his fraction be?

$\frac{15}{4}$

$$4\frac{1}{3} = \frac{13}{3}$$

$$\frac{15}{4} = 3\frac{3}{4}$$

$$\frac{10}{3} = 3\frac{1}{3}$$

$$15 \quad 5$$