

Learning Objective:	To be able to convert between mixed numbers & improper fractions	Name:	
		Date:	

Do NOW Activity:

- Express 120 as a **product of primes**
- Find the **nth term** of 2, 5, 10, 17
- Work out $20 - 12 \div (8 - 2)$
- Work out 12.5×1.5
- Work out $1485 \div 15$

PRIOR KNOWLEDGE CHECK:

- I am able to add and subtract fractions

THE MAIN EVENT

WORKED EXAMPLE #1:

1. Write $\frac{5}{2}$ as a mixed number.

$$5 \div 2 = 2$$

rem 1 out of 2

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

..... (1)

2. Write $\frac{21}{5}$ as a mixed number.

$$21 \div 5 = 4$$

rem 1 out of 5

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

..... (1)

PRACTICE #1:

Question 1: Change these improper fractions into mixed numbers

(a) $\frac{7}{3}$

(b) $\frac{7}{5}$

(c) $\frac{5}{2}$

(d) $\frac{8}{7}$

(e) $\frac{5}{3}$

(f) $\frac{10}{3}$

(g) $\frac{23}{2}$

(h) $\frac{11}{4}$

(i) $\frac{11}{8}$

(j) $\frac{9}{4}$

(k) $\frac{13}{10}$

(l) $\frac{13}{6}$

(m) $\frac{16}{7}$

(n) $\frac{51}{10}$

(o) $\frac{34}{11}$

WORKED EXAMPLE #2:

Write $1\frac{2}{3}$ as a top heavy fraction.

$$\frac{(1 \times 3) + 2}{3}$$

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

..... (1)

Write $5\frac{3}{5}$ as a top heavy fraction.

$$\frac{(5 \times 5) + 3}{5}$$

$$\frac{28}{5}$$

..... (1)

PRACTICE #2:

Question 2: Change these mixed numbers into improper fractions

(a) $2\frac{1}{5}$

(b) $3\frac{1}{2}$

(c) $1\frac{3}{4}$

(d) $3\frac{2}{3}$

(e) $1\frac{2}{5}$

(f) $2\frac{4}{7}$

(g) $1\frac{1}{3}$

(h) $2\frac{3}{10}$

(i) $4\frac{3}{4}$

(j) $1\frac{7}{12}$

(k) $3\frac{9}{10}$

(l) $2\frac{3}{50}$

(m) $3\frac{5}{8}$

(n) $8\frac{3}{8}$

(o) $1\frac{14}{32}$

PRACTICE #3:

Question 1: Match up the improper fractions and mixed numbers.

$2\frac{1}{4}$

$2\frac{1}{3}$

$1\frac{3}{4}$

$3\frac{2}{3}$

$\frac{7}{4}$

$\frac{11}{3}$

$\frac{7}{3}$

$\frac{9}{4}$

Question 2: Arrange these improper fractions in order, starting with the smallest.

$\frac{23}{4}$, $\frac{37}{7}$, $\frac{11}{2}$

Question 3: Write down a mixed number between $3\frac{3}{11}$ and $3\frac{2}{5}$

Question 4: Gregory feeds his cat $\frac{2}{5}$ of a can of cat food each day.

Work out how many cans of cat food are eaten each fortnight.

Give your answer as a mixed number.

Question 5:

13

9

21

5

2

Using the cards, create an improper fraction that is:

(a) between 1 and 2

(b) between 2 and 3

(c) between 4 and 5

(d) between 5 and 10

(e) greater than 10