Learning Objective:	To be able to add & subtract mixed numbers	Name:	
		Date:	

Do NOW Activity:

1 Work out 0.25 × 1000

2 Solve 4x = x + 9

3 What is 10% of £5.50?

4 Work out 15.3 − 3.84

5 Work out 3 + -4

PRIOR KNOWLEDGE CHECK:
1. I am able to add and subtract fractions

THE MAIN EVENT

WORKED EXAMPLE #1:

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

$5 \div 2 = 2$
rmd 1 out of 2

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

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

$21 \div 5 = 4$
rmd 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) $\frac{34}{11}$

(p) $\frac{29}{12}$ (q) $\frac{60}{11}$ (r) $\frac{47}{15}$ (s) $\frac{101}{9}$ (t) $\frac{99}{20}$

WORKED EXAMPLE #2:

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

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

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

2. Write $5\frac{3}{3}$ 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) $2\dfrac{1}{5}$ (b) $3\dfrac{1}{2}$ (c) $1\dfrac{3}{4}$ (d) $3\dfrac{2}{3}$ (e) $1\dfrac{2}{5}$

(f) $2\dfrac{4}{7}$ (g) $1\dfrac{1}{3}$ (h) $2\dfrac{3}{10}$ (i) $4\dfrac{3}{4}$ (j) $1\dfrac{7}{12}$

(k) $3\dfrac{9}{10}$ (l) $2\dfrac{3}{50}$ (m) $3\dfrac{5}{8}$ (n) $8\dfrac{3}{8}$ (o) $1\dfrac{14}{32}$

(p) $2\dfrac{19}{24}$ (q) $12\dfrac{1}{9}$ (r) $5\dfrac{4}{15}$ (s) $4\dfrac{11}{12}$ (t) $13\dfrac{7}{16}$

APPLICATION:

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

| $2\dfrac{1}{4}$ | $2\dfrac{1}{3}$ | $1\dfrac{3}{4}$ | $3\dfrac{2}{3}$ |

| $\dfrac{7}{4}$ | $\dfrac{11}{3}$ | $\dfrac{7}{3}$ | $\dfrac{9}{4}$ |

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

$$\dfrac{23}{4}, \quad \dfrac{37}{7}, \quad \dfrac{11}{2}$$

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

Question 4: Gregory feeds his cat $\dfrac{2}{5}$ 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.