

## Year 4 Homework – 08.03.24

### Homework

#### Maths

In our unit of fractions, we have been looking at converting mixed number fractions into improper fractions. Please see the example below and the worksheet attached to complete. Mild (1-6), Hot (1-7) and Flamin' (1-8).

$$2\frac{3}{4} = \frac{11}{4}$$

Step 1) Multiple the whole (2) by the denominator (4)

$$2 \times 4 = 8$$

Step 2) Add the numerator (3) to 8 which gives you 11.

Step 3) Your denominator (4) MUST stay the same and the 11 goes as your numerator.

#### Spellings

This week my score was \_\_\_\_\_/10

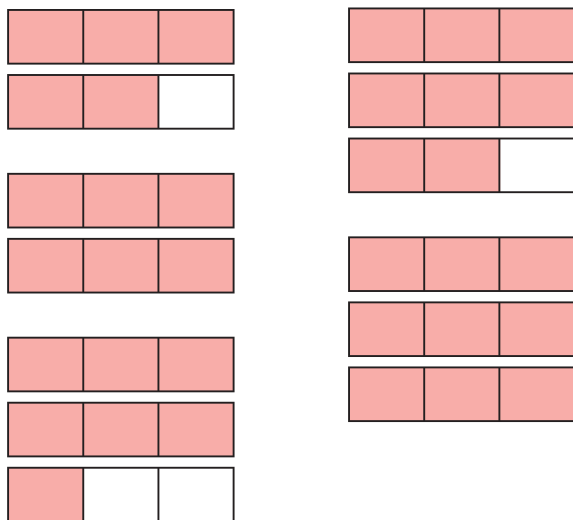
Please learn the spellings provided in your reading diary.

#### Reading

Reading diaries are currently on their way and are due to be delivered to school at the end of the month so we will pass these onto the children when we receive them. In the meantime, please keep reading as normal. Thank you!

Homework is due to be handed in on a **Wednesday**.

- 1 Write the mixed numbers and improper fractions shown by the bar models.



What do you notice?

- 2 Alex is writing integers and improper fractions.



I can multiply the whole number by the denominator to convert it to an improper fraction.

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

$$2 = \frac{8}{4}$$

$$3 = \frac{12}{4}$$

Use Alex's method to write the integers as improper fractions.

a)  $4 = \frac{\square}{4}$

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

e)  $6 = \frac{\square}{5}$

b)  $8 = \frac{\square}{4}$

d)  $3 = \frac{\square}{5}$

f)  $5 = \frac{\square}{6}$

- 3 Complete the sentences to convert the mixed number to an improper fraction.

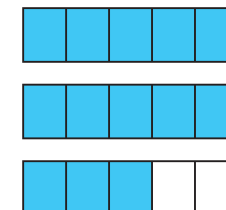
The integer in the mixed number is

This is equivalent to  fifths.

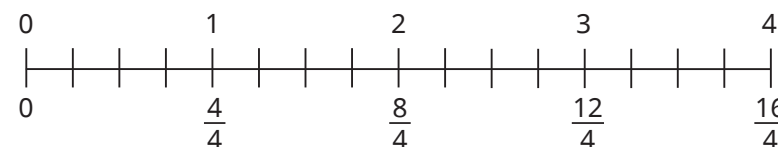
There are  more fifths.

$$\square + \square = \square$$

So the improper fraction is



- 4 Use the number line to convert the mixed numbers to improper fractions.



a)  $1\frac{3}{4}$

b)  $3\frac{1}{4}$

c)  $2\frac{2}{4}$

- 5 Convert the mixed numbers to improper fractions.

a)  $3\frac{1}{6}$

b)  $2\frac{5}{7}$

c)  $6\frac{2}{3}$

d)  $8\frac{1}{2}$

# Convert mixed numbers to improper fractions

- 3 Complete the sentences to convert the mixed number to an improper fraction.

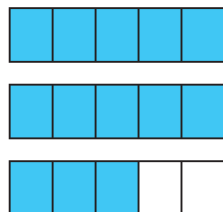
The integer in the mixed number is

This is equivalent to  fifths.

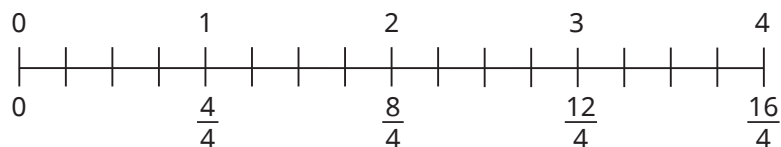
There are  more fifths.

$$\boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

So the improper fraction is



- 4 Use the number line to convert the mixed numbers to improper fractions.



- a)  $1\frac{3}{4}$       b)  $3\frac{1}{4}$       c)  $2\frac{2}{4}$

- 5 Convert the mixed numbers to improper fractions.

- a)  $3\frac{1}{6}$       b)  $2\frac{5}{7}$       c)  $6\frac{2}{3}$       d)  $8\frac{1}{2}$

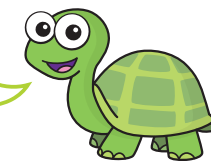
- 6 Convert the mixed numbers to improper fractions.

- a)  $3\frac{3}{4}$      $3\frac{2}{4}$      $3\frac{1}{4}$                       b)  $4\frac{2}{3}$      $5\frac{2}{3}$      $6\frac{2}{3}$

What do you notice?

- 7 Tiny has converted  $4\frac{5}{8}$  to an improper fraction.

$4\frac{5}{8}$  is equivalent  
to  $\frac{37}{8}$



- a) Explain how Tiny can use this fact to convert  $4\frac{4}{8}$   
b) Explain how Tiny can use this fact to convert  $5\frac{5}{8}$

Talk about your answers with a partner.

- c) Convert the mixed numbers to improper fractions.

- $3\frac{5}{8}$        $5\frac{6}{8}$        $14\frac{5}{8}$

- 8 What could the missing number be?

Write your answer as an improper fraction.

$$3\frac{5}{7} < \boxed{\phantom{00}} < 5\frac{2}{7}$$

Compare answers with a partner.