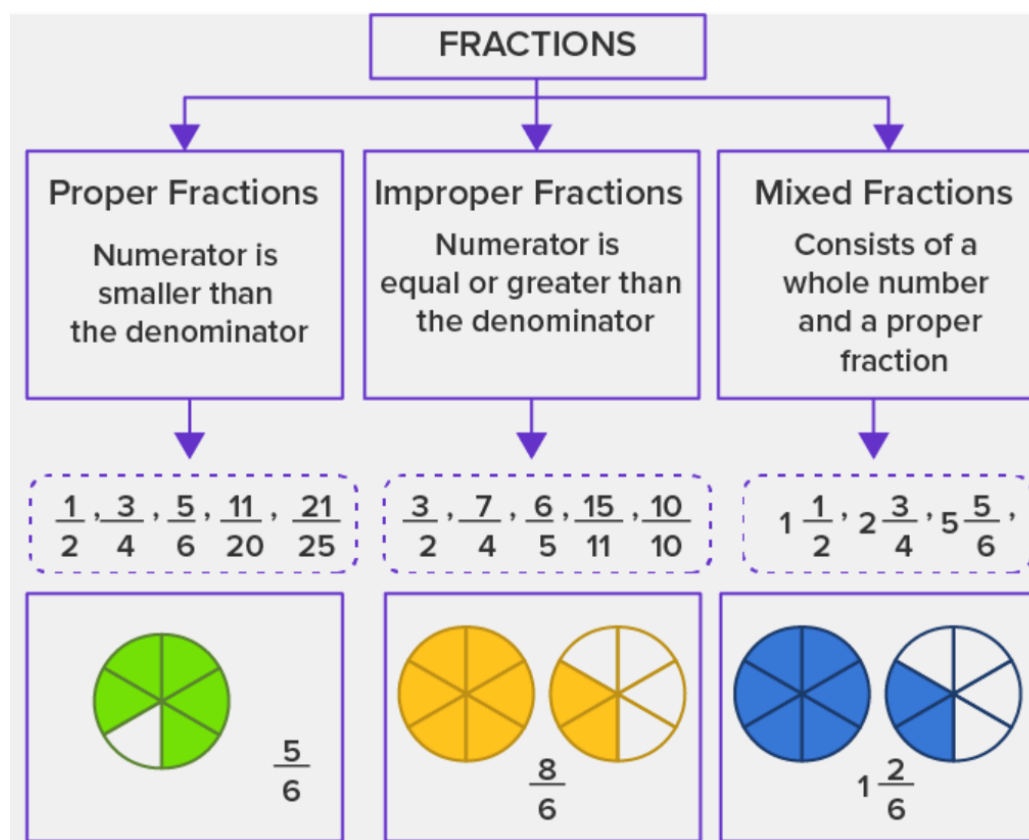


This week the focus is on improper fractions. We are working towards the following progressions -

Fractions: Read, write and represent some simple improper fractions
Turn improper fractions into mixed numbers using multiplication.

IMPROPER FRACTIONS

There are three types of fractions - Proper, improper and mixed. Improper fractions are fractions where the top number (the numerator) is bigger than the bottom number (the denominator.)




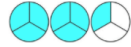
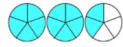
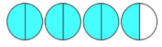
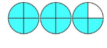
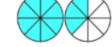
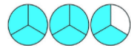
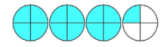
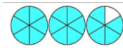
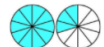
We can use an improper fraction or a mixed number *to show the same amount*.

E.g The table above illustrates that the improper fraction $\frac{8}{6}$ is equal to the mixed number $1\frac{2}{6}$

For a full explanation watch: [What is an improper fraction?](#)

TASK 1:

Write down the improper fraction and the equivalent mixed number shown in the picture.

| Picture: | Improper Fraction: | Mixed number: |
|---|--------------------|-----------------|
|  | $\frac{5}{4}$ | $1 \frac{1}{4}$ |
|  | $\frac{7}{3}$ | $2 \frac{1}{3}$ |
|  | | |
|  | | |
|  | | |
|  | | |
|  | | |
|  | | |
|  | | |
|  | | |

TASK 2: Converting improper fractions into mixed numbers:

To convert improper fractions to mixed numbers you need to:

- Divide the numerator by the denominator.
- Write down the whole number answer.
- Write down the remainder above the denominator.

Example 1: Convert $14/4$ to a mixed number.

First - Divide 14 by 4 = 3 plus 2 left over. As a mixed number = $3 \frac{2}{4}$

Example 2

Convert $\frac{20}{3}$ to a mixed number

Divide the numerator by the denominator

$$20 \div 3 = 6 \text{ plus } 2 \text{ remainder}$$
$$\frac{20}{3} = 6 \frac{2}{3}$$

6 becomes the whole number
2 is the numerator of the fraction as shown
3 is the denominator

For a detailed explanation watch [How to convert improper fractions to mixed numbers.](#)

Convert the following improper fractions into mixed numbers:

| Improper Fraction: | Show your working: | Mixed Number: |
|--------------------|--|-----------------|
| $8/3$ | 8 divided by 3 = 2 with a remainder of 2 | $2 \frac{2}{3}$ |
| $9/2$ | 9 divided by 2 = 4 with a remainder of 1 | $4 \frac{1}{2}$ |
| $10/3$ | | |
| $20/3$ | | |
| $22/5$ | | |
| $16/3$ | | |
| $18/4$ | | |

