

## Adding a fraction to a whole number

Remember that every whole number can be written as a fraction using 1 as its denominator. For example whole numbers like 4, 5, 9, 11 etc. can be written as fractions as shown below:

$$4 = \frac{4}{1} \quad 5 = \frac{5}{1} \quad 9 = \frac{9}{1} \quad 11 = \frac{11}{1}$$

This is because dividing any number by one, we get the same number. That is; the value of the number does not change when this number is divided by one.

**Example 7:** Add fractions to whole number given below (If you get an improper fraction as the answer, change it into a mixed number):

a.  $6 + \frac{3}{5}$

b.  $\frac{2}{8} + 1$

**Solution:**

a.

$$6 + \frac{3}{5}$$
$$= \frac{6}{1} + \frac{3}{5}$$

Write 6 as  $\frac{6}{1}$

$$= \frac{6 \times 5}{1 \times 5} + \frac{3}{5}$$

Lcd for 1 and 5 is 5

$$= \frac{30}{5} + \frac{3}{5}$$
$$= \frac{33}{5} = 6\frac{3}{5}$$

b.

$$\frac{2}{8} + 1$$
$$= \frac{2}{8} + \frac{1}{1}$$
$$= \frac{2}{8} + \frac{1 \times 8}{1 \times 8}$$
$$= \frac{2}{8} + \frac{8}{8}$$
$$= \frac{10}{8} = \frac{5}{4} = 1\frac{1}{4}$$