

# DISY CENTRE AND SCHOOL

## MATHEMATICS ASSIGNMENT FOR CLASS 6

### FRACTIONS

#### Division involving mixed numbers by a fraction.

When dividing mixed numbers by a fraction, the following steps are followed:

- 1) Change the mixed fraction into improper fraction
- 2) Change the sign to multiplication
- 3) Get the reciprocal of the second fraction
- 4) Simplify by cancelling.
- 5) Write your answer in simplest form.

#### Example 1

Work out:  $2\frac{1}{2} \div \frac{1}{2}$

$$= \frac{5}{2} \div \frac{1}{2}$$

$$= \frac{5}{2} \times \frac{2}{1}$$

$$= \frac{10}{2}$$

$$= 5$$

#### Example 2

What is  $\frac{1}{2} \div 2\frac{2}{3}$

$$= \frac{1}{2} \div \frac{8}{3}$$

$$= \frac{1}{2} \times \frac{3}{8}$$

$$= \frac{3}{16}$$

#### **Exercise**

1. Work and simplify the following:

a)  $3\frac{3}{8} \div \frac{9}{10}$

b)  $5\frac{2}{5} \div \frac{5}{9}$

c)  $\frac{7}{10} \div 2\frac{3}{8}$

d)  $4 \frac{4}{5} \div \frac{8}{15}$

2. Nyaboke prepared  $5 \frac{1}{3}$  litres of juice for her birthday party. If everybody took  $\frac{1}{3}$  of the juice, how many people were at the party?

3. A tailor bought  $8 \frac{1}{4}$  m of material. He subdivided his material into  $\frac{3}{4}$  m pieces. How many such pieces of material did he get?

**NB: This work should be done in your exercise books**

**\*\*\*\*\* STAY SAFE \*\*\*\*\***