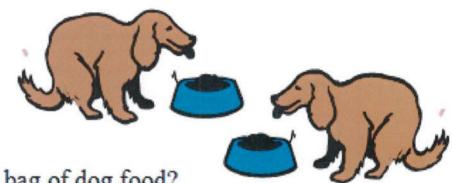
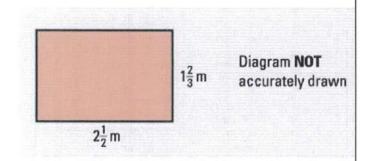
## Susan has 2 dogs

Each dog is fed  $\frac{3}{8}$  kg of dog food each day. Susan buys dog food in bags that each weigh 14kg.



For how many days can Susan feed the dogs from 1 bag of dog food? You must show all your working.



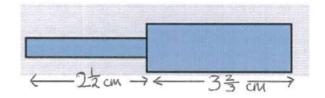
## Find the area of the rectangle Solution

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

$$\frac{5}{2} \times \frac{5}{3} = \frac{25}{6}$$

$$= \frac{1}{6}$$

## **Functional Fractions**



The diagram represents a machine part.

Find the total length of the part.

## Solution

$$2\frac{1}{2} + 3\frac{2}{3}$$

$$2+3=5$$

$$\frac{1}{2}+\frac{2}{3}=\frac{3+4}{6}=\frac{7}{6}$$

$$=|\frac{1}{6}|$$



The length of a ribbon is  $13\frac{1}{2}$  cm

We need to cut off  $2\frac{4}{5}$  cm so it

fits around the top tier. How much ribbon do we need for the top tier?

$$13\frac{1}{2} - 2\frac{4}{5}$$

$$\frac{27}{2} - \frac{14}{5} = \frac{135 - 28}{10}$$
$$= \frac{107}{10}$$
$$= 10\frac{7}{10}$$

= 6 tcm We need 10 to cm of ribbon for the top tier.