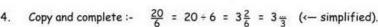
## Exercise 1



- 1. Copy and complete the following :-
  - (a)  $\frac{15}{2}$  really means  $15 \div 2 \implies 2 \boxed{15}$  (remainder ....) =>  $7\frac{15}{2}$ .
  - (b)  $\frac{23}{6}$  really means  $23 \div 6 \Rightarrow 6 \boxed{23}$  (remainder ...)  $\Rightarrow 3\frac{1}{6}$ .
  - (c)  $\frac{13}{9}$  really means  $13 \div ...$  =>  $... \boxed{13}$  (remainder ....) =>  $... \frac{...}{9}$ .
  - (d)  $\frac{17}{5}$  really means .... ÷ .... => 5 ... (remainder ....) => ...  $\frac{17}{5}$ .
- 2. In a similar way, change the following top-heavy fractions to mixed numbers :-
  - (a)  $\frac{11}{3}$
- (b)  $\frac{21}{4}$
- (c)  $\frac{29}{6}$
- (d)  $\frac{9}{2}$

- (e)  $\frac{32}{5}$
- (f)  $\frac{65}{8}$
- (g)  $\frac{73}{10}$
- (h)  $\frac{31}{20}$
- (a) Four boys decide to share 11 bars of chocolate evenly.
   What will each boy receive (as a mixed number)?
  - (b) 23 kg of potatoes are packed evenly into 5 bags. What weight of potatoes goes into each bag?
  - (c) A container holds 17 litres of water. An equal quantity of water is poured into 6 cups such that each holds the same amount. How much water will be in each cup?

Change each of the following to mixed numbers and simplify where possible :-



- - (a)  $\frac{15}{6}$
- (b)  $\frac{18}{4}$
- (c)  $\frac{18}{8}$
- (d)  $\frac{32}{10}$

- (e)  $\frac{30}{9}$
- (f)  $\frac{38}{8}$
- (g) 45 20
- (h)  $\frac{175}{100}$

- 6. This diagram represents  $2\frac{3}{4}$  pizzas.
  - (a) How many "1" pizza slices do you get from 1 pie ?
  - (b) How many " $\frac{1}{4}$ " pizza slices do you get from 2 pies ?
  - (c) How many " $\frac{1}{4}$ " pizza slices do you get from  $\frac{3}{4}$  of a pie ?
  - (d) How many " $\frac{1}{4}$ " pizza slices is this altogether from the  $2\frac{3}{4}$  pizzas?
  - (e) Write this as  $2\frac{3}{4} = \frac{11}{4}$ .



7. (a) A piece of rope was  $6\frac{4}{5}$  metres long. A piece measuring  $3\frac{1}{5}$  was cut off.

What length of rope remained?





- (b) 2 jugs of water were poured into an empty basin. The first jug held  $2\frac{3}{4}$  litres and the second held  $1\frac{3}{4}$  litres. How much water was in the basin in total ?
- (c) Of the  $10\frac{5}{6}$  kilometres from her house to the shops, Lucy had cycled  $7\frac{1}{6}$  kilometres.

How much further has Lucy to cycle to reach the shops ?

(d) George ate  $\frac{3}{5}$  of a pizza, Billy ate  $\frac{4}{5}$  and Amanda ate  $\frac{2}{5}$ . How much had they eaten altogether ?



- (e) Bunty weighed 42 <sup>6</sup>/<sub>7</sub> kilograms.
  She went on a diet and lost 4 <sup>3</sup>/<sub>7</sub> kilograms.
  What is Bunty's new weight ?
- 8. A table measures  $5\frac{9}{10}$  feet long by  $2\frac{7}{10}$  feet wide.
  - (a) By how much is the length bigger than the breadth?
  - (b) Calculate the perimeter of the table top.



2 7 feet

5 9 feet

9. A lorry weighs  $3\frac{7}{8}$  of a tonne. Crates are loaded onto the lorry.



Each crate weighs  $\frac{5}{8}$  tonnes.

What is the total weight of the lorry carrying a load of :-

- (a) 1 crate
- (b) 2 crates
- (c) 3 crates?
- Look at the picture of the hammer.
   Calculate the length of the rubber handle.

