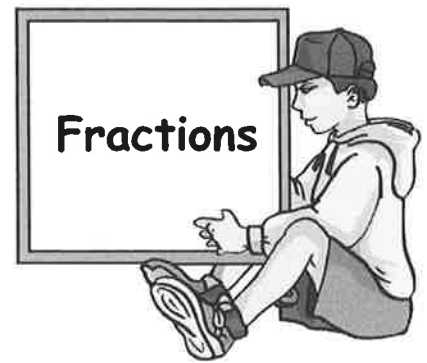
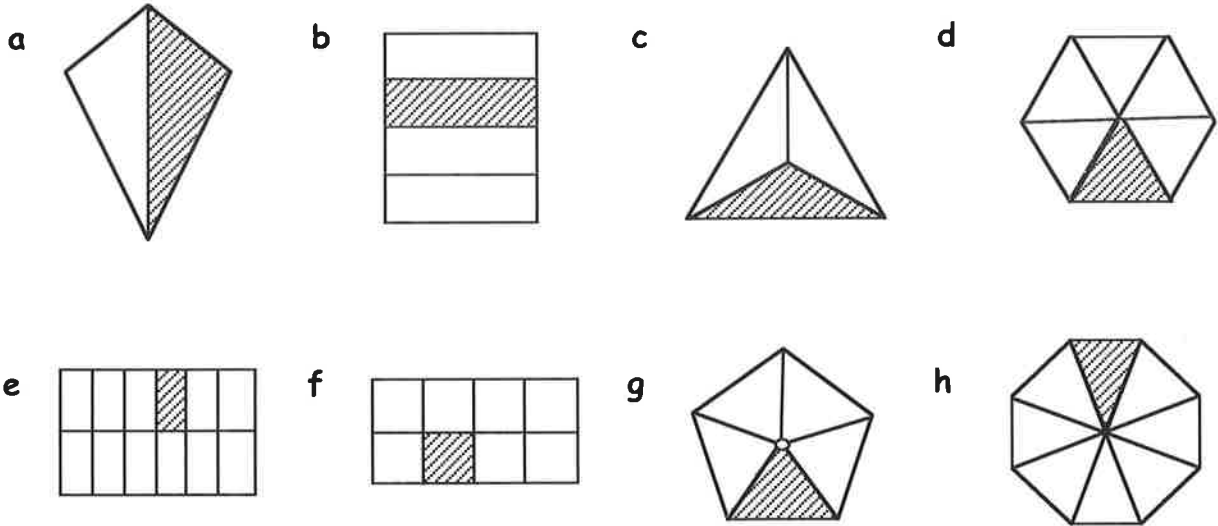


# CHAPTER 11



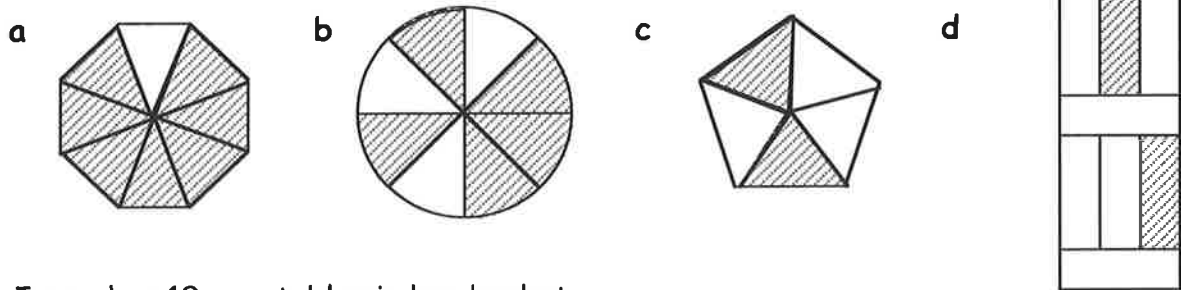
## Exercise 1

1. What fraction of each shape is the shaded bit ?



## Exercise 2

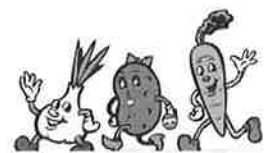
1. For each of the following, write the fraction that is shaded :-



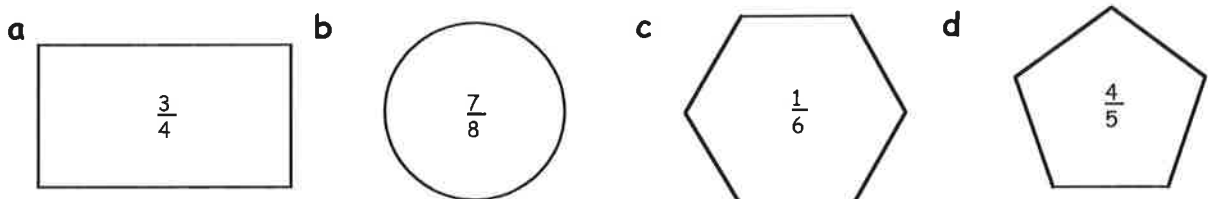
2. Jenny has 19 vegetables in her basket. She has 10 potatoes, 7 carrots and the rest are onions.

What fraction of the 19 are :-

- a potatoes      b carrots      c onions ?



3. Trace or copy each of these shapes, divide it up and shade the fraction asked for :-



### Exercise 3

1. Write down **two** fractions equivalent to :-

a  $\frac{1}{2}$

b  $\frac{2}{5}$

c  $\frac{4}{7}$

d  $\frac{5}{9}$ .

2. Simplify as far as possible :-

a  $\frac{6}{8}$

b  $\frac{8}{10}$

c  $\frac{10}{14}$

d  $\frac{30}{50}$

e  $\frac{24}{32}$

f  $\frac{30}{45}$

g  $\frac{15}{21}$

h  $\frac{16}{20}$

i  $\frac{60}{80}$

j  $\frac{10}{200}$

k  $\frac{80}{120}$

l  $\frac{75}{100}$

m  $\frac{44}{55}$

n  $\frac{38}{57}$

o  $\frac{480}{600}$

p  $\frac{49}{147}$ .

### Exercise 4

1. Find :-

a  $\frac{1}{3}$  of 12

b  $\frac{1}{2}$  of 16

c  $\frac{1}{4}$  of 20

d  $\frac{1}{5}$  of 30

e  $\frac{1}{6}$  of 42

f  $\frac{1}{7}$  of 35

g  $\frac{1}{8}$  of 32

h  $\frac{1}{9}$  of 63

i  $\frac{1}{6}$  of 318

j  $\frac{1}{4}$  of 648

k  $\frac{1}{7}$  of 931

l  $\frac{1}{10}$  of 320.

2. a There are 30 days in June.  
Alf cut his lawn at some point on  $\frac{1}{6}$  of those days.  
On how many days did he cut his lawn ?



b



Tony had a fine set of 24 teeth but had to have a **quarter** of them removed due to infection.  
How many teeth was Tony left with ?

3. Noreen was on a 50 mile journey to her uncle Ted's.  
She ran out of petrol one **tenth** of the way there.
- a How far had Noreen driven before she ran out ?
- b How many miles had she still to go to her uncle's ?



## Exercise 5

1. Find :-

a  $\frac{2}{3}$  of £18

b  $\frac{3}{4}$  of £28

c  $\frac{2}{5}$  of £35

d  $\frac{3}{7}$  of £21

e  $\frac{5}{8}$  of £40

f  $\frac{7}{10}$  of £60

g  $\frac{2}{9}$  of £72

h  $\frac{5}{16}$  of £48

i  $\frac{7}{20}$  of £120

j  $\frac{4}{25}$  of £250

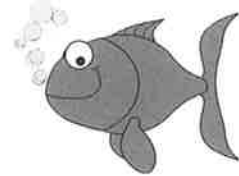
k  $\frac{11}{100}$  of £300

l  $\frac{9}{15}$  of £75.

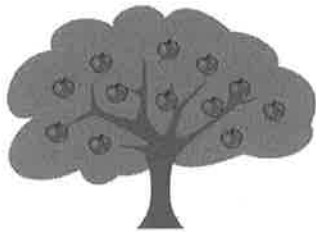
2. Of the 20 fish in a garden pond  $\frac{3}{5}$  are goldfish.

a How many goldfish are in the pond ?

b How many other breeds of fish are there ?



3.



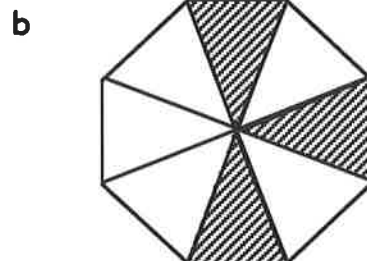
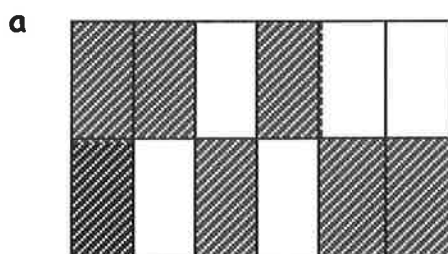
There are 280 trees in an orchard, of which  $\frac{5}{7}$  are apple trees and the rest pear trees.

a How many apple trees are there in the orchard ?

b How many pear trees ?

## Revision Exercise

1. For each shape, say what fraction has been shaded :-



2. For each shape in question 1, write down the fraction **not** shaded.

3. Copy and complete :-

a  $\frac{1}{5} = \frac{?}{10}$

b  $\frac{2}{3} = \frac{8}{?}$

c  $\frac{?}{9} = \frac{55}{99}$ .

4. Write down **two** fractions equivalent to :-

a  $\frac{1}{8}$

b  $\frac{2}{7}$

c  $\frac{9}{10}$ .

5. Write each of these fractions in their **simplest** form :-

a  $\frac{8}{12}$

b  $\frac{14}{35}$

c  $\frac{32}{48}$

6. Find :-

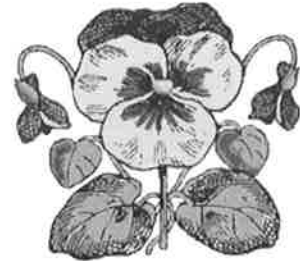
a  $\frac{1}{4}$  of £28

b  $\frac{1}{7}$  of 49 grams

c  $\frac{1}{11}$  of 77 dollars.

7. Amy has 24 plants in her greenhouse.

- a **quarter** are busy lizzies
- a **third** are pansies
- a **sixth** are lobelia
- the rest are begonia.



a How many busy lizzies does Amy have ?

b How many lobelia ?

c How many begonia ?

8. Find :-

a  $\frac{2}{5}$  of £30

b  $\frac{5}{7}$  of 210 grams

c  $\frac{5}{8}$  of 7200 euros.

9. 120 racing cars started a race.

After twenty laps,  $\frac{1}{6}$  of them dropped out of the race.

By the end of the race  $\frac{9}{10}$  of the cars **remaining** had ran out of fuel.

How many racing cars had no fuel left in their tanks ?

