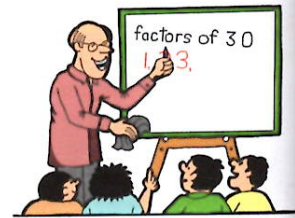


7. a List the factors of 30.
 b List the factors of 36.
 c Make a list of the common factors of 30 and 36.
 d What is the **highest common factor** (or the **h.c.f.**) of 30 and 36 ?



8. Find the **h.c.f.** of the following pairs of numbers :-

- a 6 and 10 b 14 and 21 c 12 and 18 d 8 and 28
 e 20 and 55 f 80 and 100 g 29 and 37 h 30 and 45.

9. Find the **h.c.f.** of these numbers :-

- a 8, 12 and 20 b 10, 20 and 25 c 14, 35 and 42 d 12, 16 and 28
 e 18, 24 and 30 f 24, 32 and 48 g 18, 45 and 54 h 50, 75 and 100.

10. What is :-

- a the h.c.f. of 8 and 10 b the l.c.m. of 8 and 10
 c the l.c.m. of 15 and 6 d the h.c.f. of 15 and 6
 e the h.c.f. of 12 and 20 f the l.c.m. of 12 and 20 ?

Multiples & Factors - Problems

Reminder :-

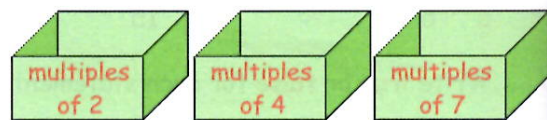
The multiples of 8 are 0, 8, 16, 24, ..., ..
 The factors of 8 are 1, 2, 4, 8.

Be able to use
 Multiples and
 Factors to solve
 problems

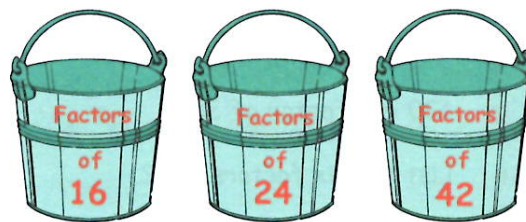


Exercise 3

1. From the list of numbers, say which **multiples** boxes each number could be placed in.
 (Some numbers can go in more than 1 box).
 2, 4, 14, 21, 28, 32, 42, 49, 56, 60, 70.



2. Place each of the numbers below in the correct **factor** buckets.
 1, 2, 3, 4, 5, 6, 7, 8, 12, 14, 16, 21.
 (Some numbers will go in more than 1 bucket).



3. For each of the following
- list all the factors.
 - state how many factors each number has.
- a 4 b 16 c 25 d 36
 e 49 f 100 g 64 h 9.