FACTORS AND MULTIPLES

(Solving word problems)

Ex1.

Jack bought a bag of marbles. The total number of marbles is an odd number between 30 and 80. It is a multiple of 9 and the difference between its digits is 3. How many marbles did Jack buy?

Ans: _____

Ex 2.

A shopkeeper bought a box of pens. There were fewer than 60 pens in the box. The pens can be packed into bags of 4 or 7. What is the greatest possible number of pens in the box?

Ans: _____

Ex 3.

Pauline has less than 70 apples. If she packed all the apples in bags of 9, she will have 4 apples left unpacked. If she packs all the apples in bags of 7, she will have no apples left unpacked. How many apples does Pauline have?

Ans: _____

Ex 4.

Tim has a basket of apples. There are less than 50 apples in the basket. If he gives 8 apples to each of his horses, he will have none left. If he gives 9 apples to each of his horses, he will need 5 more apples.

a. How many apples are there in the basket?

Ans: _____

b. How many horses does Tim have?

Ans: _____