

MULTIPLES AND FACTORS 1

1) List all the factors of:

a) 20	b) 30	c) 14
d) 17	e) 32	f) 54

2) Write down the first ten multiples of:

a) 3	b) 6	c) 15
d) 4	e) 11	f) 12

3) Factor into primes:

a) 50	b) 800	c) 120
d) 34	e) 1440	f) 175

4) Find a number which is a multiple of:

a) 5 and 8	b) 20 and 3	c) 12 and 7
d) 34 and 17	e) 15 and 25	f) 14 and 42

5) Find the HCF (**Highest Common Factor**) and the LCM (**Lowest Common Multiple**) of each pair of numbers:

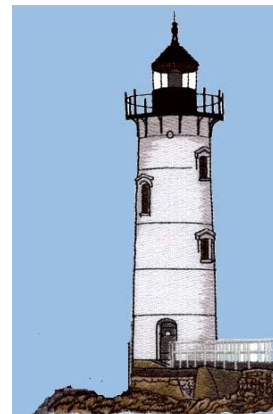
a) 10 and 16	b) 49 and 77	c) 200 and 300
d) 450 and 600	e) 72 and 270	f) 22 and 121

6) Find the smallest prime number greater than 1000.

7) Find the Highest Common Factor of 1008, 1260, 882 and 1134.

8) Two natural numbers are called relatively prime if they have no common factor greater than 1. Find two relatively prime natural numbers that are each greater than 1000.

9) There are two lighthouses on the top of a hill. The first flashes once every 8 seconds, and the other flashes once every 12 seconds. If they flash at the same time, how long will it take until they flash simultaneously again?



10) Find the smallest number a such that $a \times 338$ is a square number.