

Lowest Common Multiple

- 1) a) List the first 10 multiples of 8.
b) List the first 10 multiples of 6.
c) What is the lowest common multiple of 6 and 8?

- 2) What is the lowest common multiple (LCM) of:
 - a) 5 and 3
 - b) 9 and 6
 - c) 8 and 10
 - d) 12 and 9
 - e) 15 and 20
 - f) 6 and 11?

- 3) a) Use a factor tree to find the prime factors of 66.
b) Use a factor tree to find the prime factors of 40.
c) Find the LCM of 40 and 60.

- 4) Find the LCM of:
 - a) 28 and 30
 - b) 16 and 24
 - c) 20 and 25
 - d) 60 and 50

- e) 12 and 18
- f) 21 and 35

5) Two lighthouses can be seen from the top of a hill. The first flashes once every 8 seconds, and the other flashes once every 15 seconds. If they flash simultaneously, how long is it until they flash again at the same time?

6) At a go-kart race track, Vic completes a lap in 40 seconds; Paul completes a lap in 30 seconds, and Mark completes a lap in 50 seconds.

If all three start a lap at the same time, how long is it before,

- a) Paul overtakes Vic,
- b) Vic Overtakes Mark?