

## Factors and Multiples Review

### [Level 1]

- 1) List all factors of 24.
- 2) List the first 5 multiples of 12.
- 3) Find the highest common factor of 20 and 36.
- 4) Find the lowest common multiple of 16 and 20.

### [Level 2]

- 5) Find the highest common factor of 24, 36 and 120.
- 6) Find the lowest common multiple of 8, 20 and 15.
- 7) Bus services 67 and 85 depart from the depot at 8:15 a.m.  
If bus 67 departs every 15 minutes and bus 85 departs every 20 minutes, what is the next time both buses will depart from the depot at the same time?
- 8) Mrs Chan bought 120 lollipops, 200 chocolate bars and 80 cup jellies for a class party. She wants to pack the goodies equally into party packs such that there will be no leftovers.  
What is the largest possible number of party packs she can have?

### [Level 3]

- 9) Given that  $235k$  is a multiple of 1350, find the smallest possible integer value of  $k$ .

- 10) Find the highest common factor and the lowest common multiple for the numbers below, leaving your answer in index notation:

$$2^2 \times 3^5 \times 7$$

$$3^6 \times 5^2 \times 8$$