**HCF & LCM**

**Exam Style Questions (Grade C)**

1. As the product of prime factors 60 = 22 × 3 × 5

a) What number is represented by 2 × 32 × 5?

b) Find the least common multiple (LCM) of 60 and 48.

c) Find the highest common factor (HCF) of 60 and 78.

2. a) Write 28 as the product of its prime factors.

Find the least common multiple (LCM) of 28 and 42.

3. Tom, Sam and Matt are counting drum beats.

Tom hits a snare drum every 2 beats.

Sam hits a kettle drum every 5 beats.

Matt hits a bass drum every 8 beats.

Tom, Sam and Matt start hitting their drums at the same time.

How many beats before Tom Sam and Matt ***next*** hit their drums at the ***same*** time?

4. a) *p* and *q* are prime numbers such that *pq*3 = 250. Find the values of *p* and *q*.

b) Find the highest common factor of 250 and 80.

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