- 1. Given that  $P = 2 \times 3^4 \times 5^2$  and  $Q = 2^3 \times 3^2 \times 5^4$ write down, as a product of powers of its prime factors,
  - (i) the highest common factor (HCF) of P and Q

(ii) the lowest common multiple (LCM) of P and Q.

1. .....

1. .....

- 2. Given that  $A = 2^3 \times 3^2 \times 11$  and  $B = 2^2 \times 3^3 \times 11^2$ write down, as a product of powers of its prime factors,
  - (i) the highest common factor (HCF) of A and B

(ii) the lowest common multiple (LCM) of A and B.

2. .....

2. .....

- 3. Given that  $C = 2^3 \times 3^4 \times 7^3 \times 11^2$  and  $D = 2^5 \times 3^2 \times 11^3$  write down, as a product of powers of its prime factors,
  - (i) the highest common factor (HCF) of  ${\cal C}$  and  ${\cal D}$

3. ....

(ii) the lowest common multiple (LCM) of C and D.

3. .....

## Answers

- 1. (i)  $2 \times 3^2 \times 5^2$ (ii)  $2^3 \times 3^4 \times 5^4$
- 2. (i)  $2^2 \times 3^2 \times 11$ (ii)  $2^3 \times 3^3 \times 11^2$
- 3. (i)  $2^3 \times 3^2 \times 11^2$ (ii)  $2^5 \times 3^4 \times 7^3 \times 11^3$