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 $Q$
$\qquad$
(ii) the lowest common multiple (LCM) of $P$ and $Q$.
2. ...............
3. 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 $B$
4. 

(ii) the lowest common multiple (LCM) of $A$ and $B$.
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 $C$ and $D$
$\qquad$
(ii) the lowest common multiple (LCM) of $C$ and $D$.
$\qquad$

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) $2^{5} \times 3^{4} \times 7^{3} \times 11^{3}$
