QUESTION

Express the following as products of primes:-

(i) 132

(ii) 400

(iii) 1995

and hence write down $\gcd(132,400), \gcd(132,1995)$ and $\gcd(400,1995)$. ANSWER

(i) $132 = 2^2 \cdot 3 \cdot 11$

(ii) $400 = 2^4.5^2$

(iii) 1995 = 3.5.7.19

 $gcd(132, 400) = 2^2 = 4, gcd(132, 1995) = 3, gcd(400, 1995) = 5$