

07/10/XX

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HCF (Highest Common factor)

The H.C.F of two or more given numbers is the highest (or greatest) of their Common factors.

It is also called (G.C.D) Greatest Common divisor.

1) Find the H.C.F of the numbers

(a) 18, 48

$$\begin{array}{r} 2 \overline{) 18} \\ 3 \overline{) 9} \\ 3 \end{array}$$

$$\begin{array}{r} 2 \overline{) 48} \\ 2 \overline{) 24} \\ 2 \overline{) 12} \\ 2 \overline{) 6} \\ 3 \end{array}$$

$$18 = 2 \times 3 \times 3$$

$$48 = 2 \times 2 \times 2 \times 2 \times 3$$

$$\therefore \text{H.C.F is } 2 \times 3 = 6$$

(b) 36, 84 (c) 18, 60 (e) 27, 63

(d) 12, 45, 75 (e) 70, 105, 175