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40, Laxmi Nagar, Ratneswar Road, Ratlam (M.P.)
Mob. 9827007283 info@JayKuldevi.com
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Er. Vijay Singh Yadav

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Advanced Executive Program in Cyber Law, Program in IT Law

Class 6 Mathematics Chapter 3

Exercise 3.6

* कंप्यूटराइज्ड नोट्स

* फ्री स्टडी मटेरियल

* न्यूनतम शिक्षण शुल्क

* नियमित कक्षाये

Question 1: Find the H.C.F. of the following numbers:

(a) 18, 48 (b) 30, 42 (c) 18, 60 (d) 27, 63 (e) 36, 84 (f) 34, 102 (g) 70, 105, 175 (h) 91, 112, 49

(i) 18, 54, 81 (j) 12, 45, 75

Answer:

(a) Factors of 18 = $2 \times 3 \times 3$

Factors of 48 = $2 \times 2 \times 2 \times 2 \times 3$

H.C.F. (18, 48) = $2 \times 3 = 6$

(b) Factors of 30 = $2 \times 3 \times 5$

Factors of 42 = $2 \times 3 \times 7$

H.C.F. (30, 42) = $2 \times 3 = 6$

(c) Factors of 18 = $2 \times 3 \times 3$

Factors of 60 = $2 \times 2 \times 3 \times 5$

H.C.F. (18, 60) = $2 \times 3 = 6$

(d) Factors of 27 = $3 \times 3 \times 3$

Factors of 63 = $3 \times 3 \times 7$

H.C.F. (27, 63) = $3 \times 3 = 9$

(e) Factors of 36 = $2 \times 2 \times 3 \times 3$

Factors of 84 = $2 \times 2 \times 3 \times 7$

H.C.F. (36, 84) = $2 \times 2 \times 3 = 12$

(f) Factors of 34 = 2×17

Factors of 102 = $2 \times 3 \times 17$

H.C.F. (34, 102) = $2 \times 17 = 34$

(g) Factors of 70 = $2 \times 5 \times 7$

Factors of 105 = $3 \times 5 \times 7$

Factors of 175 = $5 \times 5 \times 7$

H.C.F. = $5 \times 7 = 35$

(h) Factors of 91 = 7×13

Factors of 112 = $2 \times 2 \times 2 \times 2 \times 7$

Factors of 49 = 7×7

H.C.F. = $1 \times 7 = 7$

(i) Factors of 18 = $2 \times 3 \times 3$

Factors of 54 = $2 \times 3 \times 3 \times 3$

Factors of 81 = $3 \times 3 \times 3 \times 3$

H.C.F. = $3 \times 3 = 9$

(j) Factors of 12 = $2 \times 2 \times 3$

Factors of 45 = $3 \times 3 \times 5$

Factors of 75 = $3 \times 5 \times 5$

H.C.F. = $1 \times 3 = 3$

Question 2: What is the H.C.F. of two consecutive: (a) numbers? (b) even numbers? (c) odd numbers?

Answer:

(a) H.C.F. of two consecutive numbers be 1.

(b) H.C.F. of two consecutive even numbers be 2.

(c) H.C.F. of two consecutive odd numbers be 1.

Question 3: H.C.F. of co-prime numbers 4 and 15 was found as follows by factorization:

$4 = 2 \times 2$ and $15 = 3 \times 5$ since there is no common prime factor, so H.C.F. of 4 and 15 is 0. Is the answer correct? If not, what is the correct H.C.F.?

Answer: No. The correct H.C.F. is 1.