Holiday Assignments

English Junior Section

Mathematics 03 (Factors) Grade 8 English Medium

(I) Find the H.C.F of the following numbers :

(a) 56,42,98

(b) 80,16,96

(c) 14,49,7

(d) 16,72,80

(e) 4,37,51

(f) 8,56,32

(g) 24,90,78

(h) 77,33,22

(i) 65,39,13

(j) 48,64,32

(k) 48,84, 6

(l) 22,77,66

(m) 24,48,72

(n) 77,49,56

(II) Find the H.C.F of the following algebraic terms :

(a) $6x$, $8x$

(b) $4mn$, $6n^2$

(c) $4x^2$, $6xy$, $5x$

(d) $12a^2b$, $16a^3b$, $24ab$

(e) $36a^2$, $36ba^2$

(f) $14x$, $14xy$, $28x$

(g) $4m^2n$, $2mn$, m^3n^3

(h) $15p$, $25pq$, $5p$

(i) $36ab^3c$, $24a^3bc^2$

(j) $2a^3$, $4a^2$, $3a^4$

(III) Fill in the blanks :

(a) $7x^2y^2 + 21x^3 =$ ☐ $(y^2 +$ ☐ $)$

(b) $26y^2 - 13xy = 13y (2y -$ ☐ $)$

(c) $15a + 45a^2 = 15a ($ ☐ $+ 3a)$

(d) $3x^2 - 27x^2y =$ ☐ $(1 - 9y)$

(e) $8lm^2 + 48lm =$ ☐ $(l + 6)$

(f) $4b^3 - 16b^2 =$ ☐ $(b -$ ☐ $)$

(IV) Write each algebraic expression given below as a product of two factors :

(a) $5a + 25$

(b) $4xa - 6a$

(c) $6x + 8y$

(d) $xy + 3x$

(e) $12abc + 4ac$

(f) $px - pi$

(g) $x^2 - 9x$

(h) $c^3 - c$

(i) $2p^3q^3 - 6pq^3$

(j) $xy - \frac{1}{2}xy^2$

(k) $10ax^2 + 15ax^3$

(l) $12x + 48$

(m) $y^2 + 4y$

(n) $a^3 - ab^2$

(o) $10cd - 20cde$

(p) $\frac{1}{8}x^2y - \frac{1}{2}xy^2$