



Year 7 Weekly Tutorial - 03

mathsalpha.com

1. Work out the following.

a) $0.2(1.5 + 0.8) \div 2.3$

b) $12 + 8(13 - 3 \times 5)$

2. Find the HCF and LCM of 76 and 84.

3. HCF and LCM of numbers x and 48 are 12 and 144 respectively. Find x .

4. Expand and simplify.

a) $2(2x + 5) - 3(5 - x)$

c) $x(x + 3) + x(2x - 3)$

b) $-5(3 - 2x) + 2(x - 4)$

d) $a(a + b) - b(a + b)$

5. Factorize following expressions.

a) $x^2 + 2x$

d) $4x^2 - 8x$

b) $x^2 - 6x$

e) $3xy + 2xz$

c) $2x^2 + 4x$

f) $a^2b + ab^2$

6. Simplify the following.

a) $x \times x^2 \times x^3$

d) $2xy^2 \times 3xy$

b) $2x \times 3x \times 4x$

e) $x^5 \times x^{-2}$

c) $3x^2 \times 4xy$

f) $\frac{3a^2b}{6a}$

7. Find the values of the following.

a) $2 \times 3^2 \times 2^0$

c) $\frac{5^7 \times 5^{-4} \times 5^0}{5^2}$

b) $\frac{3^5 \times 2^3}{3^3 \times 2^2}$

d) $\frac{3 \times 7^4 \times 3^5}{3^4 \times 7^3}$