



Year 7 Weekly Tutorial - 05

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1. Work out without using calculator.

a) 13.8×4.7

b) $1.44 \div 0.4$

2. Work out without using calculator.

a) $5 + 3(5 - 3 \times 4)$

b) $5^2 - 5(3^2 - 2 \times 3)$

3. HCF and LCM of two numbers x and 108 are 12 and 432 respectively. Find x .

4. Expand and simplify.

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

b) $3\left(a - \frac{2}{3}\right) + 2\left(a + \frac{2}{3}\right)$

5. Write following numbers as a product of prime factors.

a) $3a^5 \times 4a^{-3}$

d) $\frac{3^5 \times 2^3 \times 3^{-3}}{3^2 \times 2}$

b) $5ab^2 \times 2a^2b$

c) $5^0 \times 5^2 \times 5^{-1}$

6. Factorize.

a) $15x^2 + 25x$

c) $2x^2 + 4x + 6y$

b) $2x^2y - 4xy^2$

d) $3a - 2ab + a^2$

7. Solve.

a) $5 + 3(x - 1) = 2x + 8$

c) $4(x + 5) = 3(x - 2)$

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

d) $3(2x - 1) = 2(x + 3)$

8.

a) Find y , if $y = 2a + 3b$, $a = -3$ and $b = 2$.

b) Find y , if $y = 3a^2 - 2b^2$, $a = 3$ and $b = -2$