Grade 09 | Mathematics | **Unit :17 - Formulae**

Answer all the questions.

1) Length and breadth of a rectangle are X and Y respectively

i) If perimeter of it denoted by P, construct a formula for perimeter (P)

ii) If area of it denoted by A, construct a formula for A

2) Make the term given in the bracket the subject of the formula

i) $C = 2\pi r$ (r)

ii) $y = mx+c$ (c)

iii) $\frac{1}{v} - \frac{1}{u} = \frac{1}{f}$ (u)

iv) $C = \frac{5}{9}(f - 32)$ (f)

v) $S = \frac{n}{2}(a + l)$ (l)

3) $C = \frac{5}{9}(f - 32)$

i) Make 'f ' the subject of the formula

ii) If f = 200 find C

4) $a = \frac{bx + C}{b}$

i) Make ' b ' the subject of the formula

ii) If a = (-12), x = 6 and C = -9, find b

5) $P = C\left(1 + \frac{r}{100}\right)$

i) Make ' r ' the subject of the formula

ii) If P = 200, C = 50 find r

6) Volume of a cylinder can be obtained by;

Area of the base x Height

i) If radius of the base of a cylinder is r and height of the cylinder is h and volume is V ; construct a formula for volume of the cylinder.

ii) Make ' h ' the subject of the formula.

iii) If V = 6160 and r = 14 find the height of it.

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