



HOMEWORK

1) Find the value of the formula using the numbers given

a) $D = 9(y + x)$ when $y = 8$ and $x = 10$ **D =**

b) $G = 5(7c + 7a)$ when $a = -5$ and $c = -4$ **G =**

c) $B = 2(a + 5q + 5t)$ when $a = 3$, $q = -4$ and $t = 2$ **B =**

2) The circumference of a circle can be found using the formula

$$C = 2\pi r \text{ or } C = \pi d$$

Find the circumference of a circle with radius 10 cm. Leave your answer to one decimal place.

($\pi = 3.14$) **C =**

3) The area of the sector of a circle can be found using the formula

$$A = \frac{x}{360} \times \pi r^2$$

Find the area of the sector of a circle with radius 4 cm and angle, $x = 90^\circ$. Leave your answer to one decimal place.

A =

4) The formula to find the displacement of a moving object is given by the formula $s = ut + \frac{1}{2}at^2$ where s = displacement, u = initial velocity, a = acceleration and t = time. Find the displacement if $u = 9 \text{ m/s}$, $a = 3 \text{ m/s}^2$ and $t = 8 \text{ s}$.

s =

5) The surface area of a cuboid can be found using the formula $A = 2lh + 2wh + 2lw$. Find the surface area of a cuboid with length 6 cm, width 8 cm, and height 9 cm.

A =