

1) Given that

$$Y = c(d + e)$$

where,

$c = 6.8$ correct to 1 decimal place

$d = 4$ correct to 1 significant figure

$e = 30$ correct to the nearest 5

Work out the lower bound for the value of Y .

2) Given that

$$N = \frac{g-h}{2}$$

where,

$g = 5.6$ correct to 2 significant figures

$h = 0.4$ correct to 1 decimal place

Work out the upper bound for the value of N .

3) Given that

$$X = k - 2l$$

where,

$k = 20.34$ correct to 2 decimal places

$l = 3$ correct to the nearest unit

Work out the lower bound for the value of X .

4) Given that

$$Z = \frac{2t-u}{v}$$

where,

$t = 7.8$ correct to 1 decimal place

$u = 3.50$ correct to 2 decimal places

$v = 2$ correct to one significant figure

Work out the upper bound for the value of Z .

Give your answer to 2 decimal places.

5) Given that

$$C = x^2 + \frac{y}{z}$$

where,

$x = 4.3$ correct to 1 decimal place

$y = 25.6$ correct to 3 significant figures

$z = 5$ correct to the nearest unit

Work out the upper bound for the value of C .

6) Given that $R = \frac{j}{m-n}$

$j = 42$ correct to 2 significant figures

$m = 3.10$ correct to 2 decimal places

$n = 0.4$ correct to 1 significant figure

Work out the lower bound for the value of R .

Give your answer to 3 significant figures.

7) Given that $T = a\left(b + \frac{c^3}{2}\right)$

$a = 5.4$ correct to 1 decimal place

$b = 30$ correct to 2 significant figures

$c = 1.45$ correct to 2 decimal places

Work out the upper bound of T .

Give your answer to 2 decimal places.

8) Given that $D = a - \frac{b}{c}$

$a = 6.45$ correct to 2 decimal places

$b = 1.9$ correct to 1 decimal place

$c = 9$ correct to the nearest 5

Work out the upper bound of D .

Give your answer to 2 decimal places.