



Solve the simultaneous equations

$$\begin{array}{r} 3x + y = 19 \quad \times 3 \\ 2x + 3y = 8 \end{array} \quad \begin{array}{r} 9x + 3y = 57 \\ 2x + 3y = 8 \\ \hline 7x = 49 \\ x = 7 \end{array}$$

$$\begin{array}{r} 14 + 3y = 8 \\ 3y = -6 \\ y = -2 \end{array}$$

Solve

$$3 < 2x + 1 < 19$$

$$2 < 2x < 18$$

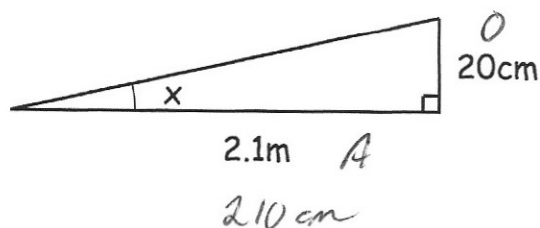
$$1 < x < 9$$

What is the mass of an object which has a volume of  $120\text{cm}^3$  and a density of  $6\text{g/cm}^3$  ?

$$\begin{array}{l} m = d \times v \\ = 6 \times 120 \end{array}$$

$$720\text{g}$$

A ramp is 2.1m long and 20cm high.



Calculate the size of angle x.

$$\tan y = \frac{20}{210}$$

$$y = 5.44^\circ$$

Given

$$\frac{5}{6} : 2 = x : 1$$

find the value of x

$$\frac{5}{6} \div 2 = \frac{5}{12}$$