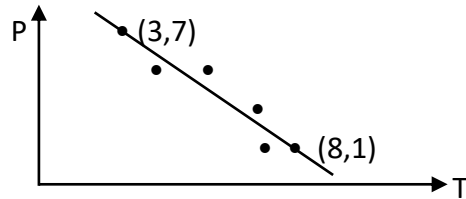


Round all answers to an appropriate degree of accuracy unless specifically stated

1. Fully factorise  $5t^2 - 45$
2. Evaluate  $3\frac{3}{4} \div 2\frac{5}{8}$ , leaving your answer in its simplest form.
3. Find the equation of the straight line shown below, in terms of P and T.



4. Calculate the radius of a sphere with volume  $3500\text{cm}^3$ . Give your answer correct to 3 significant figures. [Volume of sphere =  $\frac{4}{3}\pi r^3$ ]
5. Change the subject of the formula to  $v$

$$C = \frac{3v+5}{6}$$

6. Fully simplify

$$\frac{3x^5 \times 8x^{-2}}{4x^2}$$