SCATTER DIAGRAM: LINE OF BEST FIT



using two well-separated points on the line $(16, 6 \cdot 0)$ $(12, 5 \cdot 4)$

$$m = \frac{6 \cdot 0 - 5 \cdot 4}{16 - 12} = \frac{0 \cdot 6}{4} = 0 \cdot 15$$

substituting for one point on the line $(16, 6 \cdot 0)$ y-b = m(x-a)y-b = m(x-a)

$$y - 6 \cdot 0 = 0 \cdot 15 (x - 16)$$

$$y - 6 \cdot 0 = 0 \cdot 15 x - 2 \cdot 4$$

$$y = 0 \cdot 15 x + 3 \cdot 6$$

W = 0 \cdot 15T + 3 \cdot 6

$$T = 30 \qquad W = 0 \cdot 15 \times 30 + 3 \cdot 6$$
$$= 4 \cdot 5 + 3 \cdot 6$$
$$= 8 \cdot 1$$
$$\underline{8 \cdot 1 \ grams}$$