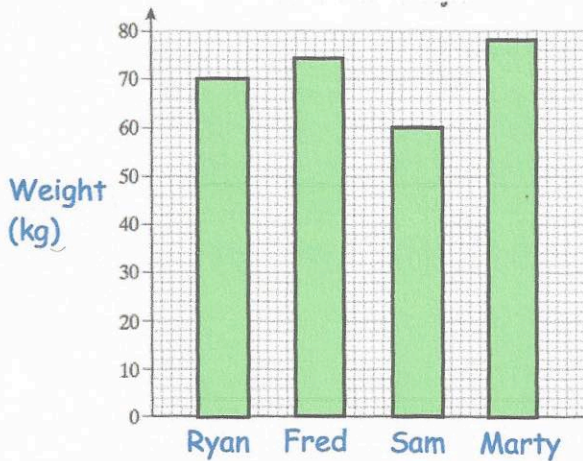


11th February



Corbettmaths



Work out the range of the weights

$$78 - 60 = 18 \text{ kg}$$

Work out the mean of the weights

$$70 + 74 + 60 + 78 = 282$$

$$282 \div 4 = 70.5 \text{ kg}$$

Mollie tries to solve  $4x - 1 = 15$  and got an answer  $x = 3.5$

Explain why she is wrong

*Mollie should have added 1 to both sides.*

$$\begin{aligned} 4x - 1 &= 15 \\ +1 \quad (-1) \quad (-1) \quad +1 \\ 4x &= 14 \\ \div 4 \quad \div 4 \\ x &= 3.5 \end{aligned}$$

Decrease 18000 by 6%

$$\begin{aligned} 18000 \times 0.94 \\ = 16920 \end{aligned}$$

$$\begin{aligned} \text{or} \quad 18000 \div 100 \\ = 180 \\ 180 \times 6 = 1080 \\ 18000 - 1080 = 16920 \end{aligned}$$

Glenn and Matt share £60 in the ratio 1:3  
How much money does each man receive?

$$\begin{aligned} 1+3 &= 4 \\ 60 \div 4 &= 15 \\ 15 \times 1 &= 15 \\ 15 \times 3 &= 45 \end{aligned}$$

$$\begin{aligned} \text{Glenn: } &£15 \\ \text{Matt: } &£45 \end{aligned}$$