For every word problem: name your letter, write the equation, solve it, then **answer the question that was asked**.

1 Solve each equation.

(a) $5(x+2)=35$ (1)

(b) $3(y-1)=21$ (1)

(c) $2(4n+3)=38$ (1)

(d) $6(m-2)=30$ (1)

(4 marks)

2 Carlos had some money. After earning $150{,}000$ shillings he has $325{,}000$.

(a) Write an equation, saying what your letter stands for (2)

(b) Solve it (1)

(c) Answer the question: how much did he have at first? (1)

(4 marks)

3 A bakery made some rolls. By noon 156 had been sold and 87 were left.

(a) Write an equation for the number made (2)

(b) How many rolls were made? (1)

(3 marks)

4 A blue ribbon is twice as long as a red ribbon. The blue ribbon is 128 cm long.

(a) Write an equation for the length of the red ribbon (2)

(b) How long is the red ribbon? (1)

(c) A pupil wrote $r = 2 \times 128$. Explain what they did wrong (2)

(5 marks)

5 Rebecca read five times as many pages this week as last week. She read 135 pages this week.

(a) Write an equation for the number of pages read last week (2)

(b) How many pages did she read last week? (1)

(3 marks)

6 A rectangle has a perimeter of 34 cm. Its length is 10 cm.

(a) Using $P = 2(l+w)$, write an equation for the width (2)

(b) Solve your equation (1)

(c) Check your answer by working out the perimeter of a 10 by 7 rectangle (2)

(5 marks)