



# Formula Word Problems

I can use simple formulae to answer algebraic word problems.



The cost of renting out a carpet cleaner is a one-off payment of £35 and then a daily hire cost of £12.



Use the formula  $\text{£}35 + (\text{number of days} \times \text{£}12) = \text{rental cost}$  to calculate the cost of renting a carpet cleaner for:

- a) 3 days \_\_\_\_\_
- b) 1 week \_\_\_\_\_
- c) a fortnight \_\_\_\_\_

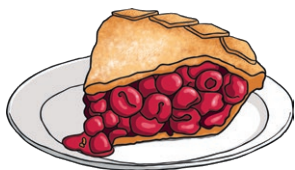
The cost of going on a pony-trekking day is £28 upfront and then £5 for every hour of horse riding.



Use the formula  $\text{£}28 + (\text{number of hours} \times \text{£}5) = \text{cost}$  to calculate the cost of pony-trekking for:

- a) 4 hours \_\_\_\_\_
- b) 9 hours \_\_\_\_\_
- c)  $6 \frac{1}{2}$  hours \_\_\_\_\_

The time it takes to cook a fruit pie is 35 minutes plus an additional 6 minutes for every 100g of fruit filling.



Use the formula  $35 + (6 \times \text{weight in grams} \div 100) = \text{time in minutes}$  to calculate the time for cooking a pie with the following amount of fruit filling:

- a) 0.5kg \_\_\_\_\_
- b)  $\frac{3}{4}$  kg \_\_\_\_\_
- c) 1.25kg \_\_\_\_\_

The cost of a taxi journey is a flat fee of £10 and then £1.50 for every mile.



Use the formula  $\text{£}10 + (\text{miles} \times \text{£}1.50) = \text{cost of taxi journey}$  to calculate the cost of these journeys:

- a) 4 miles \_\_\_\_\_
- b) 7 miles \_\_\_\_\_
- c) 9.5 miles \_\_\_\_\_