YEAR 8 • ALGEBRA

Forming and Using Simple Equations

NAME _____ DATE _____

For each problem, choose a letter for the unknown, write an equation, solve it and give your answer with units.

01 A school group buys 4 identical entry tickets and pays £26 altogether. What is the cost of one ticket?

Let _____ **represent** _____

Equation Working _____

Answer (with units) _____

02 A swimmer has completed 12 lengths. She swims 8 more lengths each session. After how many sessions will she have completed 60 lengths?

Let _____ **represent** _____

Equation Working _____

Answer (with units) _____

03 A roll has 7.5 m of ribbon. After 5 equal pieces are cut from it, 1.5 m remains. How long is each piece?

Let _____ **represent** _____

Equation Working _____

Answer (with units) _____

04 A club starts with £18 in its fundraising pot. It raises £2.50 for each raffle ticket sold. The pot then contains £43. How many tickets were sold?

Let _____ **represent** _____

Equation Working _____

Answer (with units) _____

05 A rectangular garden has a perimeter of 38 m. Its length is 5 m greater than its width. Find its width and length.

Let _____ **represent** _____

Equation Working _____

Answer (with units) _____

Check that your answer makes the equation true.