

## Level 4 Homework 18

1. 
$$\begin{array}{r} 8 \cdot 85 \\ + 8 \cdot 35 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 7 \cdot 45 \\ - 2 \cdot 97 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 5 \cdot 98 \\ \times 6 \\ \hline \end{array}$$

4. 
$$9 \overline{) 648}$$

5 Given the formula  $x = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$

Evaluate  $x$  when  $a = 3$ ,  $b = -2$ ,  $c = -5$

6 (a) Complete the table below.

Number of dots ( $D$ )	1	2	3	4	5
Number of lines ( $L$ )	3	5	7	9	

(b) Write down a formula for calculating the number of lines ( $L$ ) when you know the number of dots ( $D$ ).

(c) A pattern has been made using 77 lines.

How many dots are in the pattern?

7 During a holiday in Mexico, Lee changed £650 into pesos.

The exchange rate was £1 = 19.13 pesos.

How many pesos did Lee receive for £650?

Round off your answer to the nearest ten pesos.

8

Solve algebraically the equation

$$5n + 9 = 51 - 2n.$$

9 A circle has a diameter of 12 cm. Find

(a) its circumference, (b) its area.