



1. (a) Copy and complete this table, showing the number of legs on the spiders .

No. of spiders ( $S$ )	1	2	3	4	5	6
No. of legs ( $L$ )	8	?	?	?	?	?



- (b) Copy and complete :- "the total number of legs = ?  $\times$  the number of spiders".  
 (c) Write the formula using symbols connecting  $L$  and  $S$ .  
 (d) Use this "rule" to find the number of legs on 13 spiders.  
 (e) How many legs on 21 spiders ?

2. (a) Determine a formula or rule connecting the two letters.

No. of starfish ( $S$ )	1	2	3	4	5	6
No. of legs ( $L$ )	5	?	?	?	?	?



- (b) Find the number of legs for 13 starfish.

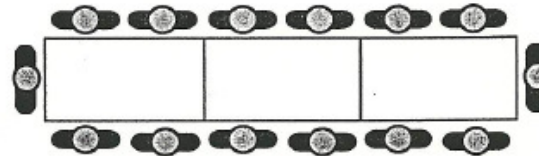
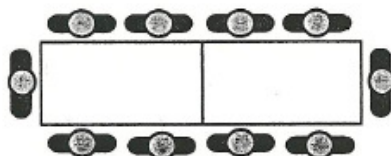
3. (a) Determine a formula or rule connecting the two letters.

No. of tricycles ( $T$ )	1	2	3	4	5	6
No. of wheels ( $W$ )	3	?	?	?	?	?



- (b) Find the number of wheels for 17 tricycles.

4. A rectangular table seats 6 people, two tables seat 10, three tables seat .....



- (a) Copy and complete the table.

No. of tables ( $T$ )	1	2	3	4	5	6
No. of people ( $P$ )	6	?	?	?	?	?

- (b) Write a formula using symbols. ( $P = \dots \times T + \dots$ )  
 (c) Use the formula to find how many people can sit at 12 tables.

**Dalkeith High School - Level 3 - HOMEWORK 15**



**HIRE-IT-ALL**  
 £18 to Hire  
 +  
 £10 per day



5. (a) Copy and complete the table of van hire charges.

No. of days ( <i>D</i> )	1	2	3	4	5	6
No. of £ ( <i>P</i> )	28	38	?	?	?	?

(b) Write a formula using symbols.

(c) Use the formula to find the cost of hiring a van for 2 weeks.

6. Write a formula connecting the pairs of letters in each of the tables below :-



(a)

Days ( <i>D</i> )	1	2	3	4
Hire cost ( <i>H</i> )	20	25	30	35

(b)

Fish ( <i>F</i> )	1	2	3	4
Litres ( <i>L</i> )	25	53	81	109

(c)

Breaths ( <i>B</i> )	5	6	7	8
Heartbeat ( <i>H</i> )	15	19	23	27

(d)

( <i>x</i> )	2	4	6	8
( <i>y</i> )	15	25	35	45