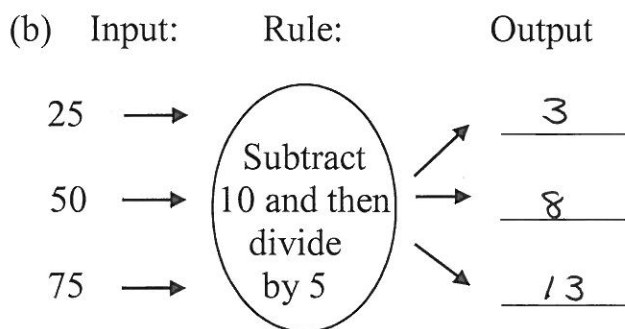
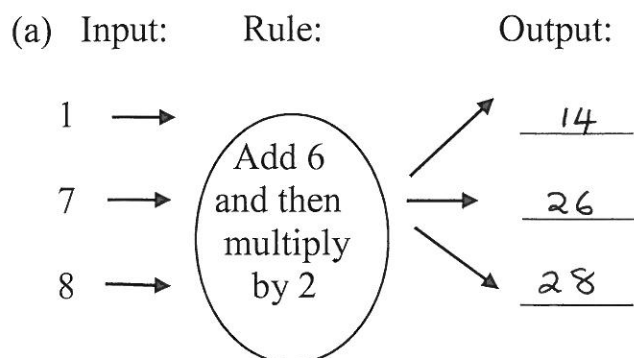
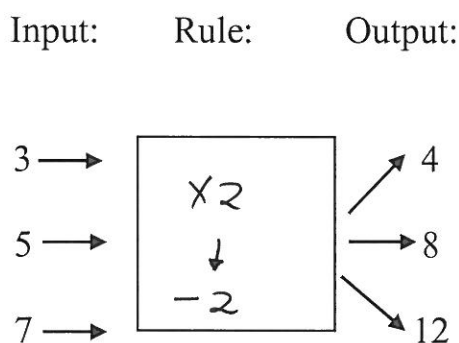
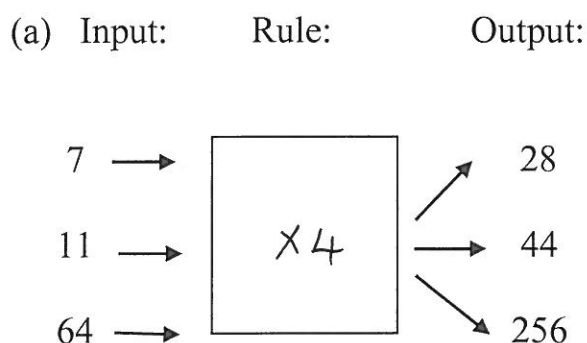


(1) Complete the output of the given flowcharts after the given rule has been applied:



(2) Determine the rule applied in each of the following cases, to obtain the output number:



(3) Complete the following tables:

(a)

n	1	2	5	7	8	11	20
$28 - n$	27	26	23	21	20	17	8

(b)

x	1	2	5	6	8	11	20
x^2	1	4	25	36	64	121	400

(4) Write down the relationship between x and the bottom number in the following tables and then complete the tables:

(a)

x	1	2	3	4	5	6	7
?	5	10	15	20	25	30	35

$? = x \times 5$

(b)

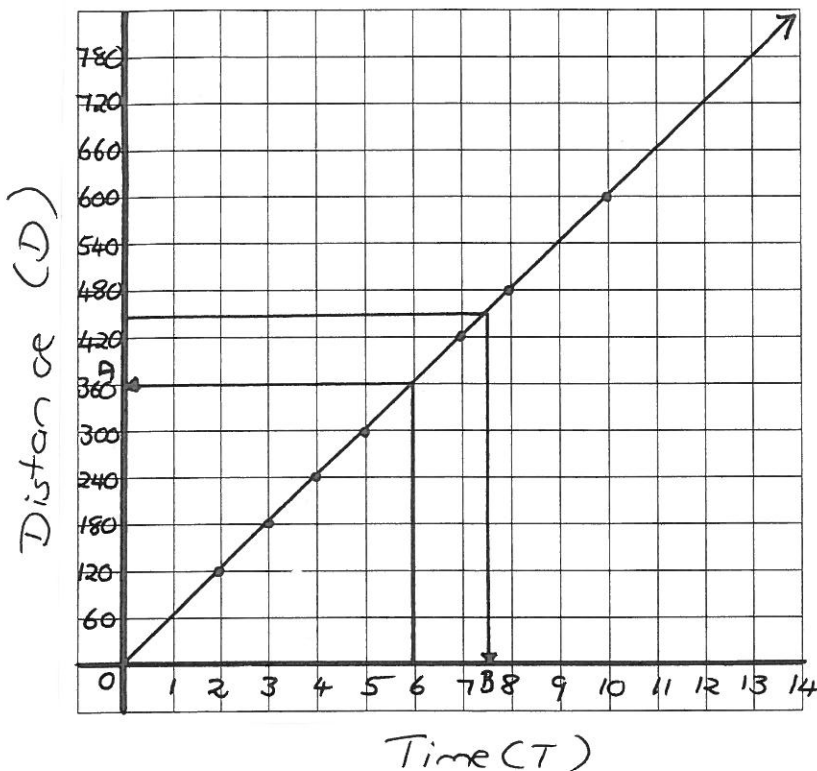
x	18	30	48	60	72	660	18 000
?	3	5	8	10	12	110	3 000

$? = x \div 6$

- (5) The distance (km) that a vehicle travelled is calculated by the following formula:
 $\text{Distance (D)} = \text{Speed (S)} \times \text{Time (T)}$
 Time is measured in hours.

Speed (S):	60	60	60	60	60	60	60
Time (T):	2	3	4	5	7	8	10
Distance (D):	120	180	240	300	420	480	600

- (a) Complete the table.
 (b) Represent the table (time on the horizontal axis and distance on the vertical axis) on a graph.



- (c) Does the vehicle travel at a constant speed? Motivate your answer.

Yes, the speed is constantly 60.

- (d) In which units are the speed measured? km/H

- (e) Use your graph and answer the following questions. Indicate where you made the readings on the graph.

(i) What distance has been travelled after 6 hours? At A → 360 km

(ii) After how many hours would the vehicle have travelled 450 km? At B → 7½ H