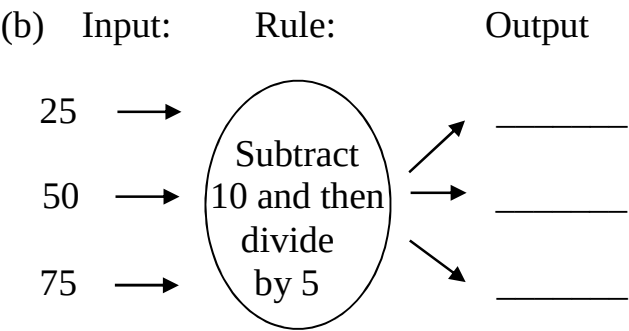
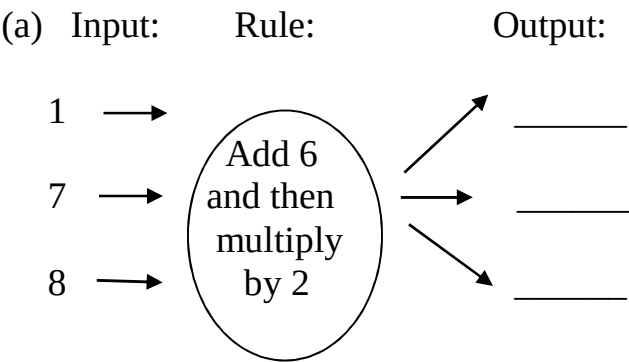
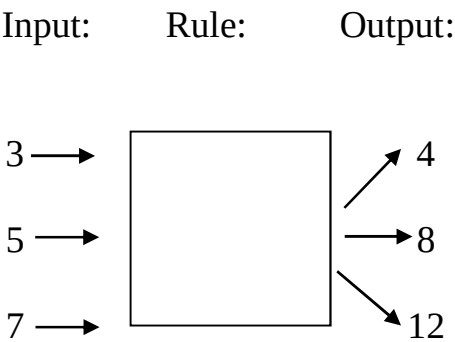
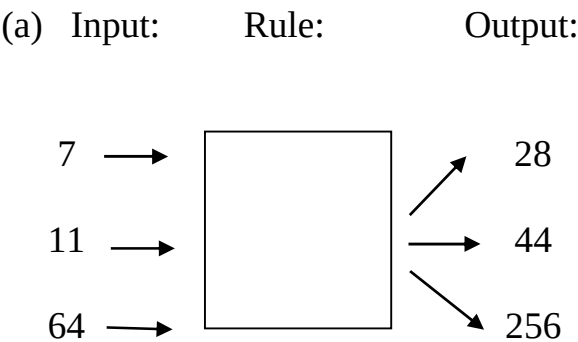


(1) Complete the output of the given flowcharts after the given rule has been applied:



(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		11	20
$28 - n$	27			21	20		

(b)

x	1	2	5	6		11	20
x^2	1				64		

(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		15			30	

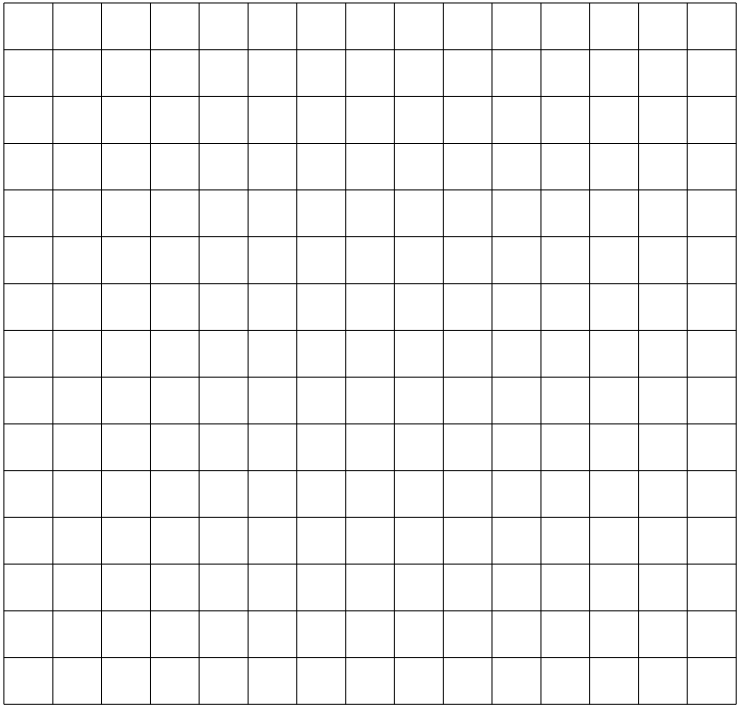
(b)

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

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

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

- (d) In which units are the speed measured? _____

- (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? _____

(ii) After how many hours would the vehicle have travelled 450 km? _____