

Practice

1. Copy and complete this Input/Output table for each relation.

- $4n$ is related to n .
- $x + 3$ is related to x .
- $4c + 6$ is related to c .

Input n	Output
1	
2	
3	
4	
5	

2. Graph each relation in question 1.
Suggest a real-life situation it could represent.

3. a) Copy and complete this Input/Output table to show how $6a - 4$ is related to a .

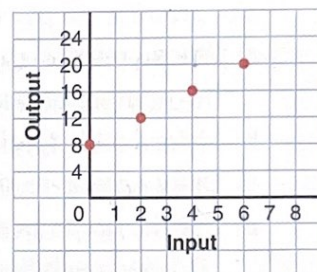
- Graph the relation.
What scale did you use on the vertical axis?
How did you make your choice.

- Explain how the graph illustrates the relation.

Input a	Output
2	
4	
6	
8	
10	

4. Look at the graph on the right.

- What is the output when the input is 1?
- Which input gives the output 18?
- Extend the graph. What is the output when the input is 8?
- Suggest a real-life situation this graph could represent.



5. Admission to Fun Place is \$5.

Each go-cart ride costs an additional \$3.

- Write a relation to show how the total cost is related to the number of go-cart rides.

- Copy and complete this table.

- Draw a graph to show the relation.

Describe the graph.

- Use the graph to answer these questions:

- Erik goes on 6 go-cart rides.

What is his total cost?

- Before entering the park, Lydia has \$30.

How many go-cart rides can she afford?

Number of Go-Cart Rides	Total Cost (\$)
0	
1	
2	
3	
4	
5	