Relations

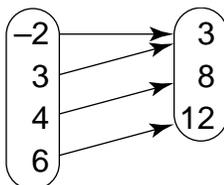### *State the domain and range of each relation.*

1. {(1, 1), (2, 2), (3, 1), (3, 2), (4, 1), (4, 2)}

2. $\left\{\left(-6\frac{1}{4}, -6\frac{1}{4}\right), \left(-6\frac{1}{4}, -\frac{1}{2}\right), \left(5, 3\frac{1}{2}\right), \left(5, -\frac{1}{2}\right)\right\}$

3. {(1.1, −2), (2.3, 0), (4.8, 1.1), (33, 2.3)}

Express the relation shown in each table, mapping, or graph as a set of ordered pairs. Then state the domain, range, and inverse of the relation.
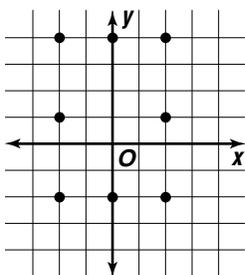
4.

x	y
1	1
2	1
3	1

5.

6.

7. Cost of Admission to Water World

Number of people	1	2	3	4
Cost (Dollars)	28	50	80	100

Draw a mapping and a graph for each relation.

8. $\left\{\left(\frac{1}{2}, \frac{1}{4}\right), \left(0, \frac{1}{2}\right), \left(2\frac{1}{2}, 3\right)\right\}$

9. {(0, 2), (2, 0), (2, 1), (2, 2)}

10. {(−2, 1), (−2, 2), (1, 1), (2, 1)}