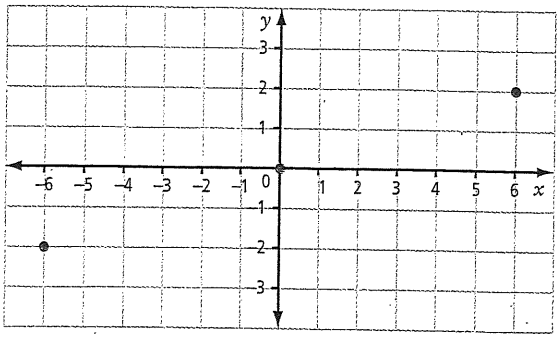
12. The graph represents part of the linear relation $y = \frac{x}{3}$.



a) What are the coordinates for the point that lies on the y-axis?

b) Use the equation to calculate the y-coordinate when $x = -3$.

c) For the point $(-9, y)$, what is the value of y?

Apply

13. a) Graph the ordered pairs in the table.

x	y
−2	0
1	2
4	4
7	6

b) Is it reasonable to assume there are points between the ones on your graph if you have no other information? Why?

14. You are given part of the table of values for a linear relation.

x	−3	−2	−1	0	1	2
y				6	8	10

a) How could you use a pattern to find the missing y-coordinates?

b) Identify the missing y-coordinates.

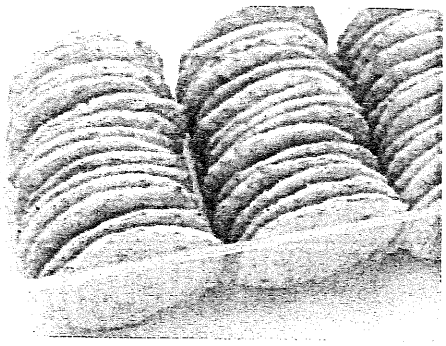
15. In a bulk food store, rice crackers sell for 80¢ per 100 g.

a) Copy and complete the table of values.

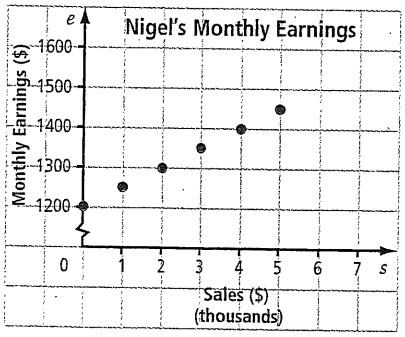
Mass of Purchase (g)	Cost (¢)
0	
100	
200	
300	

b) If you continue the table, what is the next most logical value to use for Mass of Purchase? Explain, using your knowledge of linear relations and patterns.

c) Graph the ordered pairs.



16. The graph shows Nigel's monthly earnings.



a) If Nigel does not make any sales, what are his monthly earnings?

b) Nigel has sales of $4000 in one month. How much does he earn?

c) Nigel earns $1500 in a month. What are his sales?