

Biscuit Binge

You need counters square grid paper
 a digit wheel square grid paper

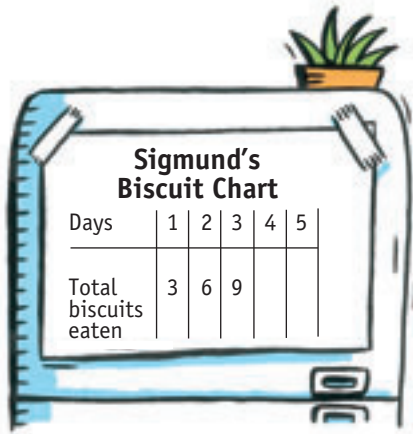
Activity One

Sigmund has a serious biscuit habit.

Every day, he raids the biscuit jar and takes the same number of biscuits.

“You need to control that sweet tooth of yours,” says his mother. “Do you realise how many biscuits you’re eating altogether?”

She put a chart like this on the refrigerator door:



Days	1	2	3	4	5
Total biscuits eaten	3	6	9		

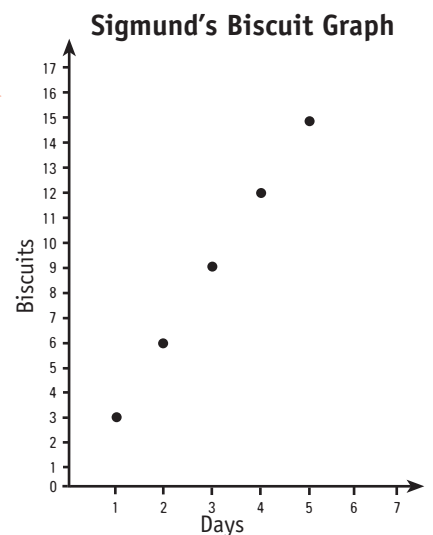
- Draw charts to show Sigmund eating:
 - two biscuits each day for 10 days
 - five biscuits each day for 10 days
 - two and a half biscuits each day for 10 days.

- What patterns can you see in the charts?

Activity Two

Sigmund is quite proud of how many biscuits he eats, and so underneath the chart, he draws this graph.

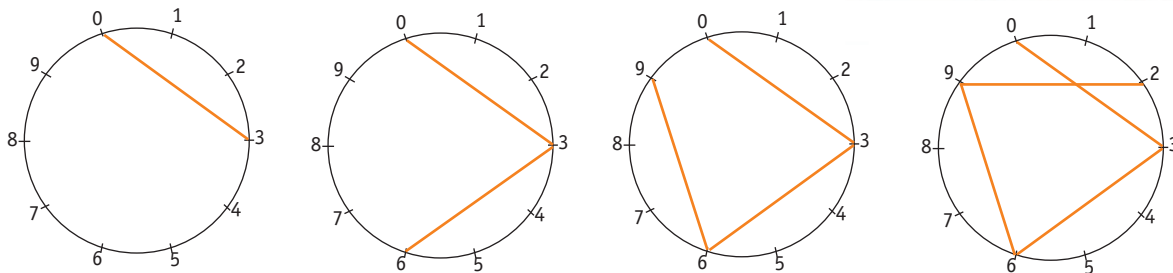
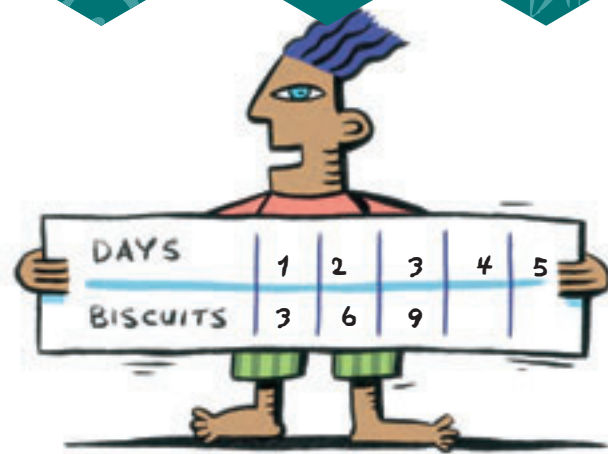
- How many biscuits does this graph show that Sigmund is eating each day?
- Draw different graphs that will show Sigmund eating:
 - two biscuits each day for 10 days
 - four biscuits each day for 10 days
 - six biscuits each day for 10 days.
 - one and a half biscuits each day for 10 days.
- What patterns can you see in the graphs you have made?



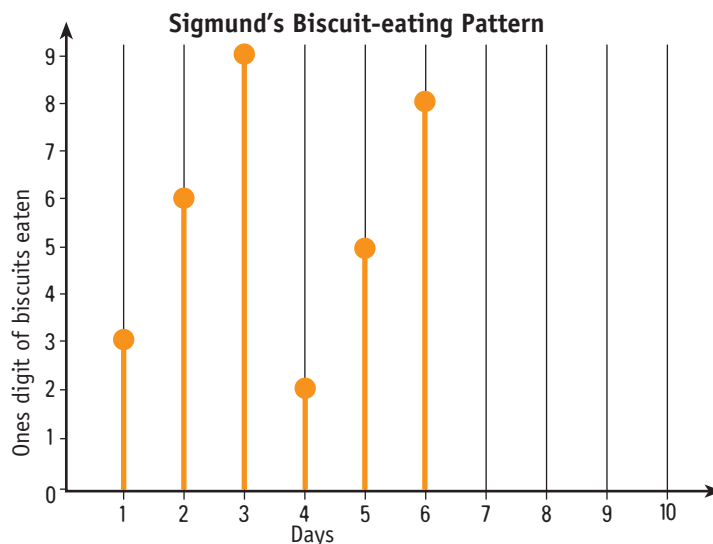
Activity Three

Sigmund takes his chart and graph along to school for a morning talk. Mr Puketapu, his teacher, shows him some other ways he could describe his biscuit-eating patterns.

This is how Mr Puketapu shows the ones digit of the biscuit numbers on a digit wheel:



1. Copy the three-biscuits-a-day pattern on a digit wheel and finish it to show Sigmund's eating pattern over 10 days. What patterns do you see?
2. Try using the digit wheel to show different numbers of biscuits each day for 10 days.
3. Here is another way that Mr Puketapu shows Sigmund's three-biscuits-a-day pattern:



Use graphs like the one above to show the patterns for different numbers of biscuits eaten each day for 10 days:

- a. two biscuits
- b. four biscuits
- c. six biscuits
- d. one and a half biscuits.