

# Exploding Bottles

This task is about fractions and percentages of whole numbers.



Hohepa made 12 bottles of ginger beer each week for 8 weeks. The bottles are sealed with a special bottle top and stored. Sometimes the pressure of the ginger beer causes the bottle tops to explode.

The table below shows the number of bottle tops that exploded.

**Number of bottle tops that exploded each week**

Week	1	2	3	4	5	6	7	8
<b>Bottles of ginger beer made</b>	12	12	12	12	12	12	12	12
<b>Number of bottle tops exploded</b>	3	1	0	4	2	0	1	1

- a) What fraction of the bottles made in week 7 exploded? \_\_\_\_\_
- b) What fraction of the bottles made in week 5 did not explode? \_\_\_\_\_
- c) What percentage of the bottles made in week 1 exploded? \_\_\_\_\_%
- d) What percentage of the bottles made in week 4 did not explode? \_\_\_\_\_%
- e) What fraction of the total number of bottle tops exploded over the whole 8 weeks?  
Write your answer in its simplest form.

Show your working here:

Answer: \_\_\_\_\_