

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
Bottles of ginger beer made	12	12	12	12	12	12	12	12
Number of bottle tops exploded	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: _____