

Mathematics Assessment Program

Middle School Mathematics

Short Tasks: Statistics and Probability

1. In a shipment of 1,000 bulbs, $\frac{1}{40}$ of the bulbs were defective.
What is the ratio of defective to non-defective bulbs?
2. A vendor has 15 helium balloons for sale: 7 are yellow, 5 are red, and 3 are green. A balloon is selected at random and sold. If the balloon sold is yellow, what is the probability that the next balloon selected at random, is also yellow?
3. Joe has a bag containing 8 red sweets, 9 yellow ones and 11 green. He takes out a sweet and eats it, then, he takes out a second sweet. What is the probability that both the sweets are red?

4.

Number of children	0	1	2	3
Number of families	13	24	36	27

Data were collected on the number of children per family in a certain village and tabulated as shown.

Find the average (mean) number of children per family in the village.

5.

Number of accidents	0	1	2	3	4	5	6
Number of drivers	14	13	19	4	2	2	1

The table shows the results of a poll which asked drivers how many accidents they had had over the previous 5 years.

What is the median number of accidents per driver?