

12th August

Corbettmaths

An internet company collected data about the number of internet devices in each of 50 households. The table shows the results.

Number of devices	Number of households
0	1
1	1
2	2
3	4
4	9
5	13
6	10
7	7
8	3

0
1
4
12
36
65
60
49
24

Work out the total number of internet devices in these 50 households

251

Calculate the mean number of internet devices per household.

$$251 \div 50 = 5.02$$

A hexagon-based pyramid has a height of 54cm.

The volume of the pyramid is 1080cm^3 . Calculate the area of the base of the pyramid.

$$V = \frac{1}{3}Ah$$

$$1080 = \frac{1}{3}A \times 54$$

$$1080 = 18A$$



54cm

$$1080 \div 18 = 60\text{cm}^2$$

7.8 has been truncated to one decimal place.

Write down an inequality to show the range of possible actual values.

$$7.8 < x < 7.9$$

or

$$7.8 \leq x < 7.9$$

A line has gradient 3 and passes through the point (1, 8)

Find the equation of the line.

$$y = 3x + 5$$