## **Basic Statistics Practice #1**

1. The number of cats owned by students in a class is listed below:

0, 2, 0, 0, 1, 1, 0, 0, 4, 2, 0, 1, 0, 0, 1, 3, 1, 1, 1, 0, 0, 2, 0, 1, 0, 2, 3, 0

a) Complete a frequency table of this data, including labelling it properly, then graph it:

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b)	What is the me	edian nun	nber	of c	ats	owi	neo	d?				•••••													
c)	What is the me	ean numb	er c	of cat	ts ov	vne	ed?																		
,																									
d)	What is the mo	ode numb	er c	of cat	ts ov	vne	ed?																		
e)	Describe the trend in the data/graph?																								

The distance from school to the homes of the students is recorded, to the nearest km:
0, 2, 1, 5, 1, 19, 0, 4, 4, 15, 0, 1, 1, 3, 18, 3, 18, 3, 4, 7, 20, 2, 18, 12, 0, 2, 3, 1

Complete a dot plot of this data.

a)

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b)	What is the median distance from so	chc	bol	?	•••		 	 									
c)	Discuss any features of the graph				 		 	 		 		 	••••			 	
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## Answers: Basic Statistics Practice #1

1. The number of cats owned by students in a class is listed below:

0, 2, 0, 0, 1, 1, 0, 0, 4, 2, 0, 1, 0, 0, 1, 3, 1, 1, 1, 0, 0, 2, 0, 1, 0, 2, 3, 0

a) Complete a frequency table of this data, including labelling it properly, then graph it:



The graph should be a histogram (no gaps between bars, as above) or bar graph – it can also go sideways. Not a line graph as it is not some value against time.

- b) What is the median cats owned? 1 (put in order, middle is 14<sup>th</sup>/15<sup>th</sup> out of 28)
- c) What is the mean cats owned? **0.93** (26 cats owned ÷ 28 people)
- d) What is the mode cats owned? **0** (most common value)

e) Describe the trend in the data/graph? The number of people drops off steadily with, the number of cats – the greater the number of cats, the less people have that many.

2. The distance from school to the homes of the students is recorded, to the nearest km: 0, 2, 1, 5, 1, 19, 0, 4, 4, 15, 0, 1, 1, 3, 18, 3, 18, 3, 4, 7, 20, 2, 18, 12, 0, 2, 3, 1



a) Complete a dot plot of this data.

b) What is the median distance? **3 km** (put in order, middle are 14<sup>th</sup>/15<sup>th</sup> shown red)

c) Discuss any features of the graph Most people live within 4 km of the school, but there are five in a clump at 18–20 km away (presumably there is another town that distance from the school). There are not many from 5 to 17 km, so maybe farms etc.

