

YEAR 7 HOLIDAY HOMEWORK: END OF TERM 3 2017

NAME: _____

TEACHER: _____

TOTAL _____ / 41 = _____ %

INSTRUCTIONS:

Answer all questions on this worksheet

MEAN is sum of all the scores divided by the number of scores

MODE is the most frequent score (the score that appears the most)

MEDIAN is the middle score when all the scores are put in order. If there are two middle scores, then you add the scores and divide by 2.

RANGE is the highest score subtract the lowest score

Q1. (2, 1, 1, 1, 3 = 8 marks)

Consider the following set of scores **4, 4, 6, 7, 8, 8, 8, 9, 10, 10**

a) Calculate the following of the above set of scores. Show all working.

(i) Mean:

(ii) Mode:

(iii) Median:

(iv) Range:

b) Read Page 406 and 407 of your textbook and show how you can represent the above set of scores as a dot frequency graph.

Q2. (1 mark each = 8 marks)

Increase each of your scores in Q1 by **2**

(a) Write down these scores

(b) Recalculate the following based on your new scores:

(i) Mean:

(ii) Mode:

(iii) Median:

(iv) Range:

(c) By what amount did the following increase:

(i) Mean:

(ii) Mode:

(iii) Median:

(iv) Range:

Q3. (1, 2, 1, 1, 1, 1, 1, 1, 1, = 10 marks)

Multiply each of your scores in Q1 by **3**

(a) Write down these scores

(b) Recalculate the following based on your new scores:

(i) Mean:

(ii) Mode:

(iii) Median:

(iv) Range:

(c) By what amount did the following increase:

(v) Mean:

(vi) Mode:

(vii) Median:

(viii) Range:

Q4. (4, 4 = 8 marks)

Find the mean, mode, median, range of the

(a) First 10 counting numbers

(i) Mean:

(ii) Mode:

(iii) Median:

(iv) Range:

(b) First 10 square numbers

(i) Mean:

(ii) Mode:

(iii) Median:

(iv) Range:

Q5. (4, 2, 1 = 7 marks)

Khadija went on an African safari and counted the following animals:
Elephants – 14; Lions – 7, Giraffes – 8, Buffaloes – 22, Cheetahs – 2

(a) Display the data as a column graph

(b) Calculate the mean number of animals seen by Khadija.

(c) Which animal is the mode?