



arrow\_back Back to Averages and Range from Grouped Data Whether you want a homework, some cover work, or a lovely bit of extra practise, this is the place for you. And best of all they all (well, most!) come with answers. Contents Mathster is a fantastic resource for creating online and paper-based assessments and homeworks. They have kindly allowed me to create 3 editable versions of each worksheet, complete with answers. Worksheet Name 1 2 3 Grouped Frequency Table Averages 1 2 3 Corbett Maths offers outstanding, original exam style questions on any topic, as well as videos, past papers and 5-a-day. It really is one of the very best websites around. Find the mean value from the following frequency tables. Give your answers to one decimal place where required. Click here for Answers . a) We know that a total of 240 divers were surveyed. This means that the total of frequency column is 240. Therefore, if we subtract all the known values from 240, we can work out the value of x and y combined: 240-15-76-32-9=108 divers Thereforex + y = 108 divers We have been told that the ratio of x to y is 7: 5. This means that x is  $\frac{7}{12}$  of the total and y is frac  $\frac{5}{12}$  of the total and y is  $\frac{7}{12}$  of the tot {12}\times \, 108 divers = 63 divers We can calculate the value of y as follows: \dfrac {5} {12}\times 108 divers b) The modal number of shark encounters is most common number of shark encounters is most common number of shark encounters at egory with the highest frequency). This is clearly the 2 shark encounters category since 76 divers fall into this category, more than any other. c) To find the median, we need to find the middle value(s). In order to find the middle value(s), we need to find how many values there are in total. Since we have been told that there are 240 divers, we do not need to calculate this. Since the number of values is an even number, this means that there is no single middle value, so we will need to locate the two middle values. To find the middle values we need to use the formula  $dfrac{n + 1}{2} = 120.5$  This means that the median is halfway between the 120th and the 121st value. If we go back to the frequency table, we can see that the first 9 values are in the 0 shark encounters category, and the following 32 values are in the 1 shark encounter categories. The following 63 values fall in the 0 or the 1 shark encounter categories. The following 63 values fall in the 3 shark encounters category, so values 120 and 121 must be in this category. Since the 120th and the 121st values are identical, then the median is simply 3 shark encounters. d) The mean is the total number of shark encounters encounters encounte number of shark encounters by the frequency:  $9\times 1$  shark encounters = 189 shark encounters = 180 shark encounter encounters \div \, 240 divers = 3 shark encounters (to the nearest whole number) Save your answers with Gold Standard Education Switch to our new teaching resources now - designed by teachers and leading subject experts, and tested in classrooms. These resources were created for remote use during the pandemic and are not designed for classroom teaching. View new resources Key learning points In this lesson, we will learn how to calculate the mean of a set of data displayed in a frequency table. This content is made available by Oak National Academy Limited and its partners and licensed under Oaks terms & conditions (Collection 1), except where otherwise stated. Q1. What is the largest number in the stem and leaf diagram?Correct answer: 9898Q2.What is the range of the numbers in the stem and leaf diagram?Correct answer: 73.573.5Q1.Calculate the mean number of score.Correct answer: 2.52.5Q2.Calculate the mean score.Correct answer: 3.13.1Q3.Calculate the mean number of eggs laid each day.Correct answer: 1.71.7Great sheet, but there is a mistake on the answer should be C 44, not D 48 as the question asks about the total number of pets, not the total number of children.Empty reply does not make any sense for the end userMode, Median and Range Practice Strips (Editable Word | PDF | Answers)Mode, Median and Range Give an Example (Editable Word | PDF | Answers)Mode, Median and Range Sort It Out (Editable Word | PDF | Answers)Mode, Median and Range Give an Example (Editable Word | PDF | Answers)Mode, Median and Range Give an Example (Editable Word | PDF | Answers)Mode, Median and Range Give an Example (Editable Word | PDF | Answers)Mode, Median and Range 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