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## Mean median mode range frequency table worksheet pdf

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. Therefore  $x + y = 108$  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  $\frac{5}{12}$  of the total. (We are dealing in twelfths here because the sum of the ratio is 12.) We can calculate the value of x as follows:  $\frac{7}{12} \times 108 = 49$  divers. We can calculate the value of y as follows:  $\frac{5}{12} \times 108 = 45$  divers. b) The modal number of shark encounters is most common number of shark encounters (the category 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  $\frac{d}{2}$ , where n represents the total number of values;  $d = \frac{n+1}{2}$ . 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 category. This means that the first 41 values fall in the 0 or the 1 shark encounter categories. The following 76 values fall into the 2 shark encounters category, so the first 117 values fall in the 0 or 1 or 2 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 divided by the total number of divers (240). To work out the total number of shark encounters, we need to multiply the number of shark encounters by the frequency:  $9 \times 0 + 15 \times 1 + 76 \times 2 + 63 \times 3 = 240$ . If 240 divers had a total of 628 shark encounters, then the mean number of shark encounters can be calculated as follows:  $628 \div 240 = 2.6$  shark encounters (to the nearest whole number). Sign up to complete it for free ---- OR ---- Preview activity Last updated 18 June 2020 Finding the mean, median, mode and range from a frequency table. Has been created as a revision lesson but could be tweaked to be made as an introduction lesson. Worksheet with answers is also included. 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