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calculate each. Simulate in MyPsychLab the Experiment: Doing Simple Statistics The mean, also known as the average, is just the total score divided by the number of people. If our sample consists of five people as shown in the table, the mean IQ is simply the total of the five scores divided by five, which happens to be 102. The median is the middle score in our data set. We obtain the median by lining up our scores in order and finding the middle one. So in this case, we'd line up the five IQ scores in order from lowest to highest, and find that 100 is the median because it's the score smack in the middle of the distribution. The mode is the most frequent score in our data set. In this case, the mode is 120, because two people in our sample received scores of 120 on the IQ test and one person each received other scores. 68% of data As we can see, the three Ms sometimes tell us rather different things. In this case, the mean and median were close to each other, but the 95% of data mode was much higher than both. The mean is generally the best statistic to report when our data form a bell-shaped or "normal" distribution, as 99.7% of data we can see in the top panel of FIGURE 2.6. But what happens when our distribution is "skewed," that is, tilted sharply to one side or the other, as -4 -3 -2 -1 0 1 2 3 4 in the bottom panels? Here the mean provides a misleading picture of the (a) Normal (bell-shaped) distribution central tendency, so it's better to use the median or mode instead, as these statistics are less affected by extreme scores at either the low or high end. To hammer this point home, let's look at TABLE 2.4b to see what happens to our measures of central tendency. The mean of this distribution is 116, but four of the scores are much below 116, and the only reason the mean is this high is the presence of one person who scored 220 (who in (b) Negative skew (c) Positive skew technical terms is an outlier, because his or her score lies way outside the Elongated tail at the left Elongated tail at the right other scores). In contrast, both the median and mode are 95, which capture More data in the tail than More data in the tail than would be expected in a would be expected in a the central tendency of the distribution much better. normal distribution normal distribution The second type of descriptive statistic is variability (sometimes called dispersion), which gives us a sense of how loosely or tightly bunched FIGURE 2.6 Distribution Curves. (a) a normal the scores are. Consider the following two sets of IQ scores from five people: (bell-shaped) distribution, (b) a markedly negative skewed distribution, and (c) a markedly positive skewed distribution. • 80, 85, 85, 90, 95 • 25, 65, 70, 125, 150 In both groups of scores, the mean is 87. But the second set of scores is much more spread out than the first. So we need some means of describing the differences in variability in these two data sets. The simplest measure of variability is the range. The range is the difference between the highest and lowest scores. In the first set of IQ scores, the range is only 15, whereas in the second set the range is 125. So the range tells us that although the two sets of scores have a similar central tendency, their variability is wildly different (as in FIGURE 2.7a on page 102). Although the range is the easiest measure of variability to calculate, it can be deceptive because, as shown in FIGURE 2.7b on page 102, two data sets with the same range can display a very different distribution of scores across that range. To compensate for this problem, TABLE 2.4 The Three Ms: Mean, Median, and Mode. (a) (b) Sample IQ scores: 100, 90, 80, 120, 120 Mean: $(100 + 90 + 80 + 120 + 120)/5 = 102$ Median: order scores from lowest to highest: 80, 90, 100, 120, 120; middle score is 100 Mode: only 120 appears twice in the data set, so it's the most common score. Sample IQ scores: 80, 85, 95, 95, 220 Mean: $(80 + 85 + 95 + 95 + 220)/5 = 116$ Median: 95 Mode: 95 Note: Mean is affected by one extreme score, but median and mode aren't. M02_LIL18849_03_SE_C02.indd 101 mean average; a measure of central tendency median middle score in a data set; a measure of central tendency mode most frequent score in a data set; a measure of central tendency variability measure of how loosely or tightly bunched scores are range difference between the highest and lowest scores; a measure of variability 5/19/14 12:20 PM 102 Chapter 2 Research Methods in Psychology a. 30 40 50 60 70 80 90 100 110 120 130 140 150 b. 30 40 50 60 70 80 90 100 110 120 130 140 150 FIGURE 2.7 The Range versus the Standard Deviation. These two number lines display data sets with the same range but different standard deviations. The variability is more tightly clustered in (a) than in (b), so the standard deviation in (a) will be smaller. 09-04-2012 NEWSWIRE 50% of Americans Below Average in IQ Rutters News Agency: A shocking 50% of Americans are below average in IQ, reported a team of psychologists today at the Annual Meeting of the American Society of Psychology and Pseudoscience. The researchers, from Nonexistent State University, administered IQ tests to a sample of 6,000 Americans and found that fully half scored below the mean of their sample. What's wrong with this (fake) newspaper headline? psychologists often use another measure called the standard deviation to depict variability (this index is a bit complicated to calculate, so we'll spare you the trouble of that here). This measure is less likely to be deceptive than the range because it takes into account how far each data point is from the mean, rather than simply how widely scattered the most extreme scores are. Inferential Statistics: Testing Hypotheses In addition to descriptive statistics, psychologists use inferential statistics, which allow us to determine how much we can generalize findings from our sample to the full population. When using inferential statistics, we're asking whether we can draw "inferences" (conclusions) regarding whether the differences we've observed in our sample apply to similar samples. Earlier, we mentioned a study of 100 men and 100 women who took a self-report measure of extraversion. In this study, inferential statistics allow us to find out whether the differences we've observed in extraversion between men and women are believable, or if they're just a fluke occurrence in our sample. Let's imagine we calculated the means for men and women (we first verified that the distribution of scores in both men and women approximated a bell curve). After doing so, we found that men scored 10.4 on our extraversion scale (the scores range from 0 to 15) and that women scored 9.9. So, in our sample, men are more extraverted, or at least say they are, than women. Can we now conclude that men are more extraverted than women in general? How can we rule out the possibility that this small sex difference in our sample is due to chance? That's where inferential statistics enter the picture. Statistical Significance. To figure out whether the difference we've observed in our sample is a believable (real) one, we need to conduct statistical tests to determine whether we can generalize our findings to the broader population. To do so, we can use a variety of statistics depending on the research design. But regardless of which test we use, we generally use a .05 level of confidence when deciding whether a finding is trustworthy. This minimum level—5 in 100—is taken as the probability that the finding occurred by chance. When the finding would have occurred by chance less than 5 in 100 times, we say that it's statistically significant. A statistically significant result is believable; it's probably a real difference in our sample. In psychology journals, we'll often see the expression "p

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