

TABLE 1. PAYOFF MATRIX FOR PASCAL'S WAGER

| | <i>God Exists</i> | <i>God Does Not Exist</i> |
|-------------------------|---------------------------|---------------------------|
| <i>Belief in God</i> | $+\infty$ (infinite gain) | -1 (finite loss) |
| <i>Disbelief in God</i> | $-\infty$ (infinite loss) | $+1$ (finite gain) |

TABLE 2

Economic benefits and costs of the Perry Preschool Program calculated by Heckman (2006). All values are discounted at 3 percent and are in 2004 dollars. Earnings, Welfare, and Crime refer to monetized value of adult outcomes (higher earnings, savings in welfare, and reduced costs of crime). K-12 refers to the savings in remedial schooling. College/adult refers to tuition costs. (Reproduced by permission of *Science* magazine.)

| | |
|-----------------------|-----------|
| Child care | \$986 |
| Earnings | \$40,537 |
| K-12 | \$9,184 |
| College/adult | -\$782 |
| Crime | \$94,065 |
| Welfare | \$355 |
| Total benefits | \$144,345 |
| Total costs | \$16,514 |
| Net present value | \$127,831 |
| Benefit-to-cost ratio | 8.74 |

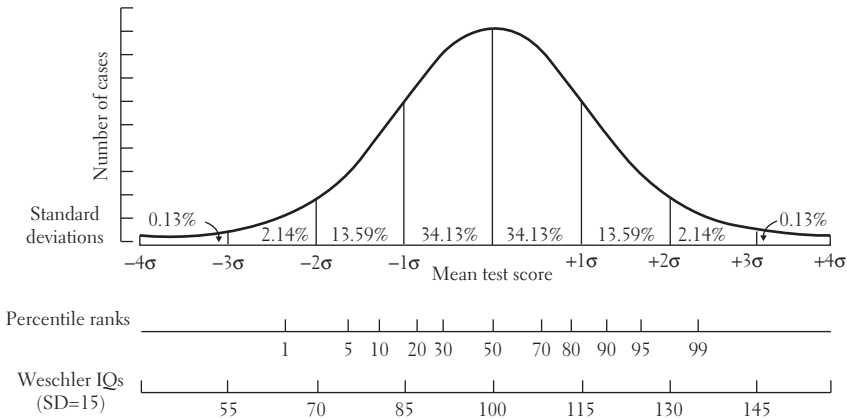


Figure 2. Distribution of IQ scores around the mean of 100, with corresponding standard deviations and percentile ranks.

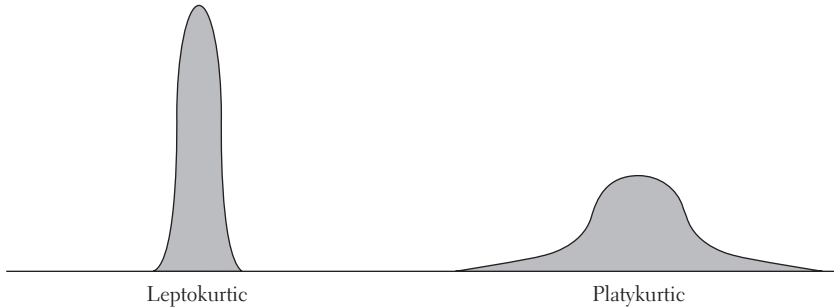


TABLE 3. THE ASSOCIATION BETWEEN
DISEASE A AND SYMPTOM X

| | | <i>Disease A</i> | |
|------------------|---------|------------------|----|
| | | Yes | No |
| <i>Symptom X</i> | Present | 20 | 10 |
| | Absent | 80 | 40 |

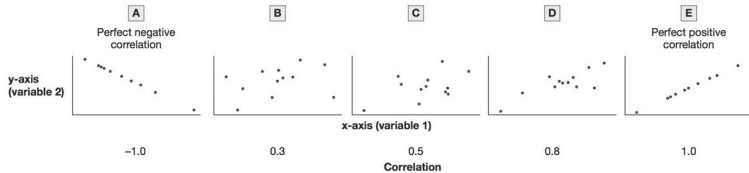


Figure 3. Scatterplots and correlations.

TABLE 4. THE CONVERSION OF PERCENTAGE ESTIMATES INTO CORRELATION COEFFICIENTS

| <i>Percentage Estimate</i> | <i>Correlation</i> | <i>Percentage Estimate</i> | <i>Correlation</i> |
|----------------------------|--------------------|----------------------------|--------------------|
| 50 | 0 | 75 | .71 |
| 55 | .16 | 80 | .81 |
| 60 | .31 | 85 | .89 |
| 65 | .45 | 90 | .95 |
| 70 | .59 | 95 | .99 |

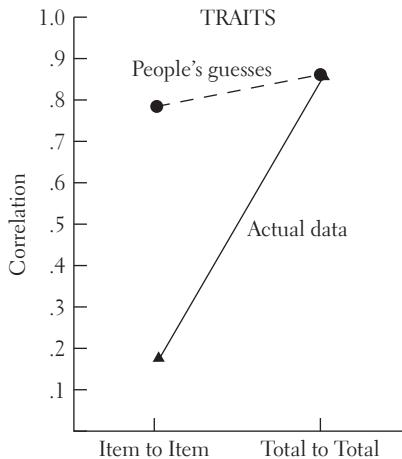
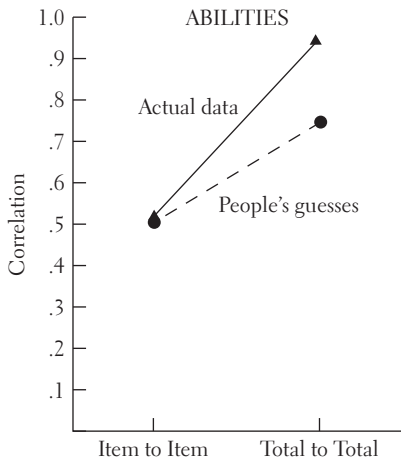
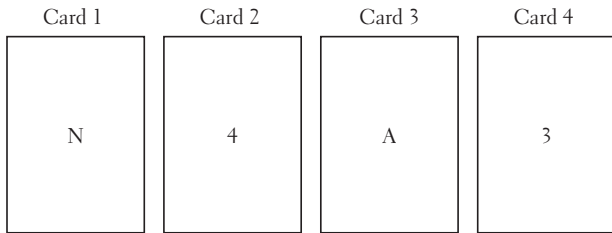


Figure 4. People's guesses about correlations based on small and large amounts of data for abilities (averaged over spelling and basketball) and for traits (averaged over friendliness and honesty).



I must turn over:

- a. Card 3 only
- b. Cards 1, 2, 3, and 4
- c. Cards 3 and 4
- d. Cards 1, 3, and 4
- e. Cards 1 and 3

We'll return to this problem later in a different context.

Figure 5 shows some of the more useful ones and will give you the general idea.

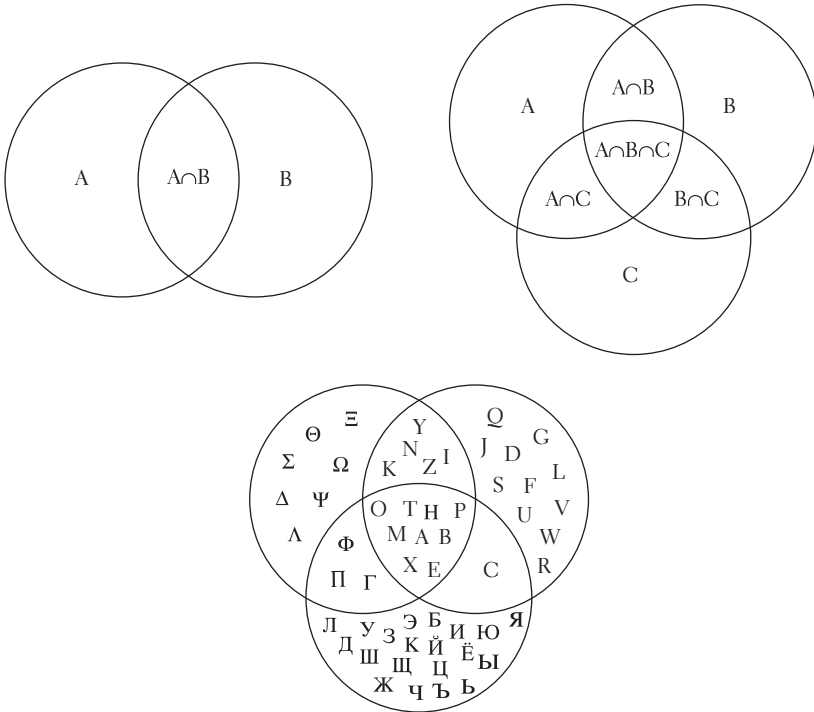


Figure 5. The intersection of categories that overlap with one another.

| Customer 1 | Customer 2 | Customer 3 | Customer 4 |
|---------------------|-------------------------|------------------|----------------------|
| Looks to be over 50 | Isn't drinking anything | Is drinking beer | Looks to be under 21 |

You need to check:

- Customer 1
- Customers 1, 2, 3, and 4
- Customers 3 and 4
- Customers 1, 3, and 4
- Customers 1 and 3

TABLE 5. EXAMPLES OF RESPONSES FOR THE HEADSTONE STORY SHOWING MORE AND LESS DIALECTICAL REASONING

| <i>Less Dialectical</i> | <i>More Dialectical</i> |
|---|--|
| <i>Considering the Different Perspectives of People Involved in the Conflict</i> | |
| <p>I can imagine that it was a sour relationship afterward because let's just say that Kurt and Ralph decided not to go ahead and pay for the headstone. Then it's going to create a gap of communication between her sister and her brothers. If the gravestone was just as important to them, then it wouldn't have been a problem about them getting the money in the beginning.</p> | <p>Somebody might believe that we need to honor parents like this. Another person might think there isn't anything that needs to be done. Or another person might not have the financial means to do anything. Or it could also mean that it might not be important to the brothers. It often happens that people have different perspectives on situations important to them.</p> |
| <i>Recognizing Multiple Ways the Conflict Might Unfold</i> | |
| <p>She probably ended up having to pay for it by herself and she probably bugs them about it. Because if they wanted to help they would have already given her money, I think. I don't think there really is an outcome.</p> | <p>It could have several outcomes. The brothers might have reimbursed the sister and then there was resentment on the wife's part. Or there could have been resentment for all three. Or the brothers could have refused to pay and she may have accepted it. Or maybe one brother would have paid.</p> |

(continued)

TABLE 5. CONTINUED

| <i>Less Dialectical</i> | <i>More Dialectical</i> |
|---|--|
| <i>Search for a Compromise</i> | |
| <p>They probably didn't have the money; otherwise they would have done it sooner. And Dawn's going to be stuck with a bill, period. She should be stuck with a bill if she went ahead without their okay. I think she footed the bill herself and so she was bitter toward her brothers after that, which she shouldn't be. She took it upon herself.</p> | <p>I would think there would probably be some compromise reached, that Kurt and Ralph realize that it's important to have some kind of headstone. Although Dawn ordered it without them agreeing, they would probably pitch in somehow, even if it was not what she wanted ideally. But hopefully there was some kind of contribution.</p> |

The looped motion generated by epicycle: with the sequential position of Mars

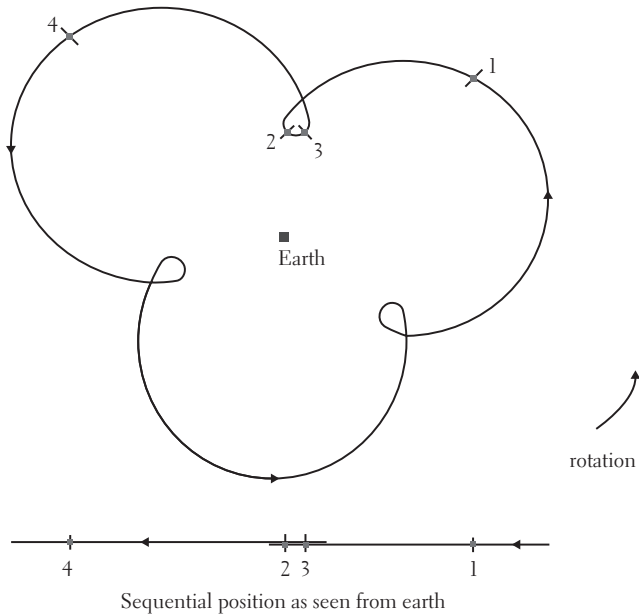


Figure 7. Ptolemy's epicycles to explain the movement of Mars around the earth.