THINKING CRITICALLY ABOUT

ESP—Perception Without Sensation?

What are the claims of ESP, and what have most research psychologists concluded after putting these claims to the test?

Without sensory input, are we capable of extrasensory perception (ESP)? Are there indeed people—who can read minds, see through walls, or foretell the future? Nearly half of Americans have agreed there are (AP, 2007; Moore, 2005).

The most testable and, for this discussion, most relevant ESP claims are

- **telepathy**: mind-to-mind communication.
- **clairvoyance**: perceiving remote events, such as a house on fire in another state.
- **precognition**: perceiving future events, such as an unexpected death in the next month.

Closely linked is psychokinesis, or “mind over matter,” such as levitating a table or influencing the roll of a die. (The claim is illustrated by the wry request, “Will all those who believe in psychokinesis please raise my hand?”)

If ESP is real, we would need to overturn the scientific understanding that we are creatures whose minds are tied to our physical brains and whose perceptual experiences of the world are built of sensations. Sometimes new evidence does overturn our scientific preconceptions. Science, as we will see throughout this book, offers us surprises—about the extent of the unconscious mind, about the effects of emotions on health, about what heals and what doesn’t, and much more.

Most research psychologists and scientists are skeptical that paranormal phenomena exist. But reputable universities in Great Britain, the Netherlands, and Australia, have added faculty chairs or research units in **parapsychology** (Storm, 2010a,b; Turpin, 2005). These researchers perform scientific experiments searching for possible ESP and other paranormal phenomena. Before seeing how parapsychologists do research on ESP, let’s consider some popular beliefs.

**Premonitions or Pretensions?**

Can psychics see into the future? Although one might wish for a psychic stock forecaster, the tallied forecasts of “leading psychics” reveal meager accuracy. During the 1990s, the tabloid psychics were all wrong in predicting surprising events. (Madonna did not become a gospel singer, the Statue of Liberty did not lose both its arms in a terrorist blast, Queen Elizabeth did not abdicate her throne to enter a convent.) And the psychics have missed recent big-news events. Where were the psychics on 9/11 when we needed them? Why, despite a $50 million reward offered, could none of them help locate Osama bin Laden after 9/11, or step forward to predict the impending stock crashes in 2008? In 2010, when a mine collapse trapped 33 miners, the Chilean government reportedly consulted four psychics. Their verdict? “They’re all dead” (Kraul, 2010). But 69 days later, all 33 were rescued.

After Amanda Berry went missing in Cleveland in 2003, her distraught and desperate mother turned to a famed psychic on a national television show for answers. “She’s not alive, honey,” the psychic told the devastated mom, who died without living to see her daughter rescued in 2013 (Radford, 2013). According to one analysis, this result brought that psychic’s record on 116 missing person and death cases to 83 unknown outcomes, 33 incorrect, and zero mostly correct. To researcher Ryan Shaffer (2013), that’s the record of a “psychic defective.”

The psychic visions offered to police departments have been no more accurate than guesses made by others (Nickell, 1994, 2005; Radford, 2010; Reiser, 1982). But their sheer volume does increase the odds of an occasional correct guess, which psychics can then report to the media. Police departments are wise to all this. When researchers asked the police departments of America’s 50 largest cities whether they ever had used psychics, 65 percent said No (Sweat & Durm, 1993). Of those that had, not one had found them helpful.

Psychics’ vague predictions sometimes sound correct when later interpreted (“retrofitted”) to match events that provide a perceptual set for “understanding” them. Nostradamus, a sixteenth-century French psychic, explained in an unguarded

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**extrasensory perception (ESP)** the controversial claim that perception can occur apart from sensory input; includes telepathy, clairvoyance, and precognition.

**parapsychology** the study of paranormal phenomena, including ESP and psychokinesis.
moment that his ambiguous prophecies “could not possibly be understood till they were interpreted after the event and by it.”

Are the spontaneous “visions” of everyday people any more accurate? Do dreams, for example, foretell the future, as people from both Eastern and Western cultures tend to believe—making some people more reluctant to fly after dreaming of a plane crash (Morewedge & Norton, 2009)? Or do they only seem to do so when we recall or reconstruct them in light of what has already happened? Two Harvard psychologists tested the prophetic power of dreams after superhero aviator Charles Lindbergh’s baby son was kidnapped and murdered in 1932 (Murray & Wheeler, 1937). Before the body was discovered, they invited people to report their dreams about the child and 1300 visionaries submitted dream reports. How many accurately envisioned the child dead? Five percent. And how many also correctly anticipated the body’s location—buried among trees? Only 4 of the 1300. Although this number was surely no better than chance, to those 4 dreamers the accuracy of their apparent precognitions must have seemed uncanny.

Given the billions of events in the world each day, and given enough days, some stunning coincidences are sure to occur. By one careful estimate, chance alone would predict that more than a thousand times a day someone on Earth will think of another person and then within the next five minutes will learn of that person’s death (Charpak & Broch, 2004). Thus, when explaining an astonishing event, we should “give chance a chance” (Lilienfeld, 2009). With enough time and people, the improbable becomes inevitable.

Putting ESP to Experimental Test

When faced with claims of mind reading or out-of-body travel or communication with the dead, how can we separate bizarre ideas from those that sound strange but are true? At the heart of science is an essential tension between two seemingly contradictory attitudes—an openness to new ideas, no matter how bizarre or counterintuitive they may be, and the most ruthless skeptical scrutiny of all ideas, old and new.”

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Carl Sagan (1987)
Despite the paper having survived critical reviews by a top-tier journal, other critics found the methods “badly flawed” (Alcock, 2011) or the statistical analyses “biased” (Wagenmakers et al., 2011). “A result—especially one of this importance—must recur several times in tests by independent and skeptical researchers to gain scientific credibility,” observed astronomer David Helfand (2011). “I have little doubt that Professor Bem’s experiments will fail this test.”

Anticipating such skepticism, Bem has made his computer materials available to anyone who wishes to replicate his studies. Multiple attempts have since been made, without success (Galak et al., 2012; Ritchie et al., 2012). Regardless, science is doing its work. It has been open to a finding that challenges its own assumptions. And then, through follow-up research, it has assessed its validity. And that is how science sifts crazysounding ideas, leaving most on the historical waste heap while occasionally surprising us.

One skeptic, magician James Randi, has had a longstanding offer of $1 million to be given “to anyone who proves a genuine psychic power under proper observing conditions” (Randi, 1999; Thompson, 2010). French, Australian, and Indian groups have made similar offers of up to 200,000 euros (CFI, 2003). Large as these sums are, the scientific seal of approval would be worth far more. To refute those who say there is no ESP, one need only produce a single person who can demonstrate a single, reproducible ESP event. (To refute those who say pigs can’t talk would take but one talking pig.) So far, no such person has emerged.

**Testing psychic powers in the British population** Psychologists created a “mind machine” to see if people could influence or predict a coin toss (Wiseman & Greening, 2002). Using a touch-sensitive screen, visitors to British festivals were given four attempts to call heads or tails, playing against a computer that kept score. By the time the experiment ended, nearly 28,000 people had predicted 110,959 tosses—with 49.8 percent correct.

we would have to rethink everything about the nature of the universe.” Moreover, if future events retroactively affect present feelings, then why can’t people intuitively predict casino outcomes or stock market futures?

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**RETRIEVAL PRACTICE**

- If an ESP event occurred under controlled conditions, what would be the next best step to confirm that ESP really exists?

**Student:** The ESP event would need to be reproduced in other settings.

**Answer:** The ESP event would need to be reproduced in other settings.