Brain Scenarios Directions: Read the following scenarios and explain the area of the brain that is affected.

Scenario	What area?
1. Walking down a dark New York street late at night you	
suddenly feel the metal barrel of a pistol press against your head	
behind your ear and hear the instructions "Don't move a muscle	
while I slip your wallet out of your pocket." Unfortunately you do	
move, the gun is fired and the bullet enters the brain. Breathing	
and heart beat stop almost immediately. Where is the bullet?	
2. "Little Mo" was extremely short for his age. His doctors	
concluded his brain was not stimulating the proper release of	
hormones necessary for growth. What area of the brain are they	
probably focusing on?	
3. You're in a parking lot at 2 AM when a guy in a hockey mask	
holding a long-bladed knife jumps out at you. What system of	
nerves would arouse your body to action?	
4. On Justin's 21 st birthday he & his buddies celebrated a bit too	
much. When the police stopped his car Justin's speech was	
slurred, he couldn't walk a straight line or balance on one foot.	
He nearly missed his face altogether when asked to touch his	
nose while his eyes were closed. The impaired functioning of	
what part of Justin's brain is responsible for these difficulties	
with motor coordination and balance?	
5. Uncle Ed suffered a stroke which damaged a portion of his	
cortex. He shows some weakness and partial paralysis of his	
right leg. What area of his cortex was affected by the stroke?	
6. Paul suffered from encephalitis (a brain infection) while in	
college. He received good medical attention but still the	
infection took its toll on certain parts of his brain, so that now	
Paul cannot store new long-term memories. What part of the	
brain did the encephalitis damage?	
7. Leon's car was broadsided by a truck causing Leon's head to	
smash against the driver's side window damaging his temporal	
lobe. What ability may be affected?	
8. Jeff suffered serious injuries when his car crashed but he was	
still able to crawl out of the car and pull his sister out as well.	
Name one of the transmitters that helped him function in this	
situation and tell how.	
9. Philip is hooked on cocaine. What neurotransmitter seems	
most closely related to the pleasure such drugs produce and their	
addictive qualities?	
10. Grandma Mary had a stroke which impaired her ability to	
speak fluently although she can move all the necessary muscles.	
What is the most likely location of her brain damage?	
11. Gwen's brain has a congenital anomaly (a difference in brain	
anatomy that she was born with) - it lacks the main connection	
between the right and left hemispheres. What was Gwen born	
without?	

12. Sara's grandfather has developed Alzheimer's disease. What	
can you tell her about probable changes in his brain chemistry?	
13. You're taking a short cut through a back yard to get to your	
car and encounter two unrestrained Dobermans who begin pursuit.	
You run faster than you have ever run before, and dive into your	
car just in the nick of time. It takes 10 minutes for your pulse	
and breathing to slow down to normal. What part of the nervous	
system slows heart rate and breathing down to normal	
afterwards?	
14. Amy was having a really bad week. On Monday her vision got	
blurrier and blurrier until she could no longer see at all. On	
Tuesday she found she couldn't hear. On Wednesday her sense	
of taste went. On Thursday she lost her sense of touch. Her	
CAT scan revealed a single brain tumor was probably producing all	
of these deficits. What single part of the brain in involved in all	
of these sensory processes?	
15. Pete was struck by lightening when he insisted on finishing his	
18 holes of golf despite the lightening packed thunderstorm. He	
was looking down; lining up a long putt shot and the bolt of	
lightening struck the rear of his head, frying his occipital lobes.	
What aspect of behavior is likely to be impaired if Pete survives?	
16. Dana is taking Prozac to help control her depression. Prozac	
works by increasing the availability of what neurotransmitter?	
17. Margie suffered damage to part of the surface of her brain	
after being struck by a golf club let loose by an irate golfer. As a	
result Margie has lost some sensory awareness of her left leg.	
Where is Margie's brain damage (be specific).	
18. After falling through the ice on a local pond Johnny was	
trapped under the icy water for 10 minutes before the rescuers	
got him out. They were able to resuscitate his pulse and	
breathing but he did not regain consciousness for days.	
Disturbance of what specific part of Johnny's brain might have	
resulted in an inability of the brain to regulate normal alertness?	
19. Jeanette suffers from focal epilepsy (seizures localized in	
just one part of the brain). Her seizures are triggering extreme	
emotions- most often extreme fear followed by a rage response.	
What part of the brain is being affected?	
20. After Martin's car accident he had difficulty understanding	
what others were saying to him. He could speak but what he said	
made little sense. Where is Martin's brain damage?	