

The Optical Billusion – Illusion Solutions

**Think Your
Your Eyes
Won't
Deceive
You?**

They already have.
Read the sentence again.

Welcome to the **Optical Billusion** - the world's most unusual magical keepsake - 32 amazing optical illusions and visual conundrums to trick the eyes and entertain the mind, compliments of ScienceSplat.com.

Optical Illusion – Something that deceives the eye by appearing to be something other than it is.

Tips & Hints for Viewing the Illusions - View the illusions in a well-lit area. If you don't experience an effect right away, try again. Try viewing it a little differently - perhaps closer or further from your eyes, or with one eye closed. If an illusion is not apparent to you, keep in mind that not everyone will experience optical illusions in the very same way. There are plenty of illusions included here, so simply enjoy the ones you are able to perceive. By the way, If you missed the second "Your," in the phrase to the left, join the 95% of us who missed it as well.

An asterisk (*) indicates answers on the back side of this solutions page.

Illusions on the Front of the Bill

Border –

1. Border Patrol - Does the line running through the center of the border design appear to be wavy? It is perfectly straight!
2. Which number 25 is brighter - the top left, or the top right? *
3. Mirror Mirror - Hold the bill in front of a mirror. The entire bill will be reversed *except* for the three number 25's in the corners.

Center of the Bill –

4. Magic Hat - Read the phrase on the hat out loud. What does it say?*
5. Which is longer, the length of the brim or the height of the hat?*
6. After-Image – Stare at the rabbit's nose for about 30 seconds, and then look at a blank white page or a light-colored wall. You will see an after image of the rabbit in the hat.
7. Vanishing Carrot – Close your right eye, and focus on the rabbit's nose with your left eye. Slowly move the bill toward your face. At some point, the carrot in your peripheral vision will vanish.
8. Rotating Circle – With your right eye closed, focus on the rabbit's nose with your left eye. As you move the bill slowly toward and away from your face, the inner circle will appear to rotate.

Left Side of the Bill –

9. Rocket Science – Holding the bill with your left hand on the left side and your right hand on the right side, put your nose on the yellow star, and rotate the bill 180 degrees counterclockwise. You will see the rocket take off and crash into the moon.
10. Man in the Moon – Watch the moon's face change from a smile to a frown when you turn the bill upside down.
11. Oh My Stars – Hold the bill about 6 inches in front of your face, and focus directly on the yellow star. The red stars surrounding it will tend to vanish from your peripheral vision.
12. Serial Number – What is the message in the serial number? Hint: Something your optometrist might say.*

Right Side of the Bill –

13. Splitting Hares – Hold the bill in front of your face, focus on the two rabbits and cross your eyes slightly. You will see three rabbits and two sets of wands.
14. Appearing Wand – Hold the bill flat in front of your face (parallel with the floor) and at eye level. From the edge of the bill, look at the point where the wands intersect. A third wand will appear in the middle.
15. Top This - Look at the point where the two wands intersect. Close your right eye to have one wand appear on top. Close your left eye to have the other wand appear on top.
16. Dance Floor Deception – It appears that there are 4 diamond-shaped floor panels that the rabbits are dancing on. Lay a pencil across either diagonal, and see how the two panels blend together even though the edges where they meet are distinctly different shades.

Illusions on the Back of the Bill

Border –

17. Border Patrol II - Do the blue and white checks on the border look wavy? All of the squares are parallel and perfectly straight.

Center of the Bill –

18. ABRACADABRA - How many ways is it possible to spell ABRACADABRA, beginning at the top letter "A" and moving down to the bottom row of letters? As you go down the 11 steps of the pyramid, you may branch either to the left or to the right to the two letters immediately below. Is the correct answer 24, 524, or 1,024?*
19. Hey Diddle Diddle, What's in the Middle? - Which of the three colored dots marks the vertical center of the pyramid – half way between the point and the base of the triangle? Yellow, Blue or Red?*
20. Bounced Check - Focus on the round central area of the bill, and *slowly* move the bill in a small, circular motion. The checked pattern in the center circle will appear to bounce around.
21. Background Check - Hold the bill steady, and focus on the central circle. It will appear to be in the foreground. Now, turn the bill 90 degrees (perpendicular). The circle will now appear to be in the background.
22. Making Contact - Look at the two hands with both eyes, and slowly bring the bill toward your face. The hands will touch.
23. OPTICAL ILLUSION – The white letters on the scroll spell OPTICAL. Look closely at the green background. It spells ILLUSION.

Left Side of the Bill –

24. The Cheshire Cat - Close one eye, and, without blinking, focus on the cat's smile. Much of the cat will disappear and blend into the background. Eye movement will trigger its reappearance.
25. It's Just a Phrase I'm Going Through - What is so unusual about the six phrases surrounding the Cheshire Cat? Hint: A Pal in Rome found this purrfectly amusing.*

Right Side of Bill –

26. Five Errors - Did you find the errors? THEIR should be THERE, IS should be ARE, ERRERS should be ERRORS, SENTANCE should be SENTENCE, and the final error: there are only 4 errors, not 5.
27. Dimples and Bumps - The yellow dots forming the number 5 appear to be raised and the purple dots recessed. Turn the bill upside down, and the yellow dots will appear recessed and the purple dots raised.
28. Hieroglyphics? Can you decipher the message created by the raised symbols?*
29. Scintillating Dots - Gaze at the number grid, and you will see flashing purple dots appear and then vanish in the yellow discs at the intersections.
30. Magic Square – Add the numbers in the square horizontally, vertically, and diagonally. Each row adds up to 264.
31. MAGIC, Magic Square – The most amazing magic square ever! Turn the grid over, and all of the numbers change, yet they still all add up to 264 when you add the rows horizontally, vertically, and diagonally. Amazing!
32. Bar Code, Bar None – The most magical number of all. With one eye closed, hold the bill at eye level, and tilt the bar code away from you until you can read the message.

The most amazing number to say is 1089: here's why: Pick any three digit number (no duplicates) and reverse it. Now subtract the smaller number from the larger number. (741-147= 594) Now whatever the number is reverse it and add the numbers together. (594+495= 1089) 1089 is always the answer!

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* ANSWERS: 2. They are exactly the same shade. 4. Did you catch the second "the?" 5. They are both the same length. 12. "I am the one to see for your eyes." 18. There are 1,024 combinations for spelling ABRACADABRA. 19. The blue dot is in the exact center. 25. All of the phrases are Palindromes. They read the same backward or forward. 28. The spaces in between the symbols spell "MAGIC NUMBERS." The Optical Illusion is a creation of Abra-CARD-Abra.com ©