**Instructions: Choose the letter of the correct answer. In all cases, E) NOTA means “none of these answers”.**

1. St. Patrick is said to have banished all of the snakes from Ireland. If from 7 AM to 7 PM he banished 396 snakes, banishing the same amount of snakes every hour, how many snakes did he banish per hour?
2. **28 B. 33 C. 56 D. 4752 E. NOTA**
3. Farrah is showing her Irish pride by waving a 3 foot x 5 foot Irish flag. What is the area of the flag in square inches?
4. **15 B. 180 C. 192 D. 2160 E. NOTA**
5. What is the perimeter of the flag from the previous question, in inches?
6. **16 B. 180 C. 192 D. 250 E. NOTA**
7. Arya decided to celebrate St. Patrick’s Day by eating an Irish favorite, potatoes, with her friends. She has 336 potatoes. If  of the potatoes are boiled and  of the potatoes are baked, how many potatoes will be left for Arya to make mashed potatoes?
8. **28 B. 84 C. 224 D. 308 E. NOTA**
9. Kathryn loves clovers! If she has 373 3-leaf clovers and 12 four-leaf clovers, how many leaves does she have in total?
10. **385 B. 1155 C. 1167 D. 1540 E. NOTa**
11. Fried O’Lander the Leprechaun has  pounds of gold waiting for him at the end of the rainbow. What is this amount expressed as a mixed number?
12. **37 lbs. B.  lbs. C. 38 lbs. D.  lbs. E. NOTA**
13. In the set of numbers {5, 6, 17, 9, 8, 8, 11}, what is the sum of the mode and range?
14. **8 B. 9 C. 20 D. 25 E. NOTA**
15. Jamie, Nilay, Sampath, and Siddu decided to have a competition to see who could catch a leprechaun in the shortest amount of time. Their times are 65, 59, 71, and 63 seconds, respectively. What is the mean of their scores in seconds?
16. **64 B. 64.5 C. 65 D. 258 E. NOTA**
17. Joyce wants to wear as much green as she can for St. Patrick’s Day, but she can’t decide what to wear! If she has 3 green tops, 2 green pairs of pants, and 2 green pairs of shoes, how many different outfits can she make if she wants to wear one top, one pair of pants, and one pair of shoes?
18. **7 B. 8 C. 12 D. 24 E. NOTA**
19. Simplify: ÷ × 
20. ** B.  C.  D. 24 E. NOTA**
21. Hannah decided to celebrate St. Patrick’s Day by visiting St. Patrick’s Cathedral. She spends 340 minutes studying the architecture of the cathedral. How many hours did she spend there?
22. ** B. 5 C.  D.  E. NOTA**
23. Kevin dared Justin to dye his rectangular pool green for the holiday. Justin needs to determine the volume of his pool to figure out how much dye he needs. The pool is 10 yards long, 6 yards wide, and 5 yards deep. What is the volume in cubic yards?
24. **21 B. 60 C. 100 D. 300 E. NOTA**
25. David has 150 pieces of chocolate gold! He decides to give 14% of it to his best friend. How much does he have left?
26. **21 B. 129 C. 136 D. 139 E. NOTA**
27. Brian, Jessie, Doreen, and Nick all have floats in the St. Patrick’s Day parade, lined up back-to-back. Which float does Brian have if:
28. Nick’s float is in front of Jessie’s.
29. Doreen’s float is behind Brian’s.
30. There is one float in between Jessie’s and Doreen’s.
31. Nick insists on leading the group.
32. **Float 1 B. Float 2 C. Float 3 Float 4 E. NOTA**
33. Brian’s float weighs two-and-a-half tons! How many pounds does Brian’s float weigh?
34. **1000 B. 2000 C. 4000 D. 5000 E. NOTA**
35. St. Patrick’s Day is on March 17. Which of the following can 17 be classified as?
36. Prime
37. Composite
38. Integer
39. Irrational
40. **I, III B. I, IV C. II, III, IV D. II, IV E. NOTA**
41. What is the least common multiple of 9 and 12?
42. **3 B. 18 C. 24 D. 36 E. NOTA**
43. Jeffrey decided to launch green confetti into the air to celebrate the holiday. His confetti cannon currently makes a angle with the ground. If he wants to make a right angle with the ground, how many more degrees does he need to raise the cannon?
44. **B. C. D. E. NOTA**
45. Nick and Nith are having an Irish step dancing competition. Nick got scores of 6.5, 7, 5, and 8.5. Nith got scores 9, 7.5, 6, and 5.5. The winner is the competitor with the best average score. What is the positive difference of the average scores of the competitors?
46. **28 B. 27 C. 1 D. 0.25 E.NOTA**
47. Daniel wants to buy some St. Patrick’s Day gear for his party. A leprechaun hat costs $7.50, and a green bowtie costs $3.75. Since Daniel thinks bowties are cool, he buys 3 bowties and 1 hat. How much money does he pay not including tax?
48. **$17.25 B. $18.50 C. $18.75 D. $26.25 E. NOTA**
49. Find the next number in the sequence:

, , , ?, …

1.  **B.**  **C.**  **D.**  **E. NOTA**
2. Gabby is extremely superstitious, so she keeps as many good luck charms around as possible. The amount of charms she has can be found by solving the equation: . Solve for x.
3. **3 B. 12 C. 13 D. 16 E. NOTA**
4. Ismael loves arts and crafts, so he decides to make 50 clover crowns. Some of them are made of 4-leaf clovers, and some are made of 3-leaf clovers. If 12 of the crowns are made of 4-leaf clovers, what percent of the crowns are made of 3-leaf clovers?
5. **37.5 B. 25 C. 64 D. 76 E. NOTA**
6. Laurie the Leprechaun is a tricky little thing. She will only let you pass her rainbow if you can think of a number that fits her 3 clues:
7. It is an even number.
8. It is a multiple of 16.
9. It is the largest factor of 128 that is less than 128.
10. **16 B. 48 C. 64 D. 80 E. NOTA**
11. Amelia is hosting a dinner party with corned beef and cabbage. It tastes so good that 3 more people join the dinner line every 5 minutes. If the line starts at 6:00 PM with 3 people in line, how many total people will have entered the line by 6:45:01 PM?
12. **27 B. 30 C. 42 D. 45 E. NOTA**
13. Order the following from greatest to least:

1.7   

**A.  B. **

**C.  D.  E. NOTA**

1. Sarah decided to finish her holiday with mint ice cream and a green maraschino cherry on top. If her scoop of ice cream is a perfect sphere of radius 2 inches, what is the volume of her ice cream (V=).
2. ** B. 8π C.  D. 16π E. NOTA**
3. What fraction of the letters are vowels in “Saint Patrick’s Day” (if “y” is included as a vowel)?
4. ** B.  C.  D.  E. NOTA**
5. Simplify: 7.3 × 3.14
6. **21.42 B. 21.922 C. 22.922 D. 23 E. NOTA**
7. The leprechauns of Lawton Chiles tip their hats to you for taking this test. Just one more question to go! If you multiply the number of questions on this test by 2013, what is your result?
8. **6039 B. 20390 C. 58377 D. 60390 E. NOTA**