**This is a 25-question multiple-choice test based off of the game Legend of Zelda. Choose the letter of the correct answer. REMEMBER to always pick the most simplified answer. In all cases, E. NOTA means “none of these answers”.**

26) Link’s neighbor owns 3 pigs that you can feed and play with throughout the game. When the pigs are fed, they generate rupees. The rectangular pen that the 3 pigs stay in is 2.5 meters long by 7 meters wide. Towards the end of the game, the 3 pigs merge into one enormous pig and as a result can no longer fit into its pen. Thus the owners decide that they are going to rebuild the pen with the dimensions x meters long by 21 meters wide. If the new pen is similar to the original pen and 21 meters is the longest side of the new pen, then what is x?

**A. 58.8 m B. 42 m C. 7.5 m D. 34.6 m E. NOTA**

27) Link is stuck in a temple on his way to save Hyrule. To enter the next dungeon he must answer the question given by the Deku Tree correctly. The Deku Tree asks “which of the following equations correctly demonstrates the associative property of addition?”.

**A. a + 0 = a or a = a + 0**

**B. 2 + (5 + 1) = 8 or (2 + 5) + 1 = 8**

**C. 2(5 + 1) = 12**

**D. 2 + 3 = 5 or 3 + 2 = 5**

**E. NOTA**

28) When Link is low on health, he can drink a red potion to regenerate a portion of his health. Potions sold at the Hyrule Market cost 150 rupees each. If Link wants to buy three potions, but only has 382 rupees, how many more rupees will he need to buy all three of the potions?

**A. 67 B. 68 C. 69 D. 450 E. NOTA**

29) A Yellow Chuchu spawns in the middle of the night and attacks Link. Link fights back, but in the progress loses 72% of his health. (Health in Legend of Zelda is measured in hearts) Assuming he starts with six hearts, how many hearts does he have remaining after the battle? Round to the nearest tenth.

**A. 1.7 B. 2.1 C. 4.3 D. 4.4 E. NOTA**

30) At the start of his adventure, Link goes to the Forsaken Fortress to find his kidnapped sister. However, on the way to save her he bumps into a few problems. One of the main problems is that the whole entire fortress is guarded by Bokoblins and if the Bokoblins find him they will proceed to throw him in jail. When he is just about to reach his sister, he is caught a scholarly-looking Bokoblin. The Bokoblin feels pity for Link, because if he is caught and sent to jail he must restart his whole entire journey from the starting point. So the Bokoblin gives him the equations 2x + y =5 and y = -4 and then asks him to find the solutions. What does x + y = ?

**A. -4 B.**  **C.**  **D.**  **E. NOTA**

31) Link is trying to impress Zelda with his knowledge of mathematics. Zelda has an affinity for prime numbers, and asks him to name one. Which one of the following is a prime number?

**A. 39 B. 51 C. 57 D. 91 E. NOTA**

32) Arriving at the bosses room, Link finds that the door is unfortunately locked. On the door he finds a list of mysterious numbers. The pattern on the door looks like: -1, \_\_, -4, 8, \_\_. To unlock the door he must figure out the two unknown numbers. What is the product of these two numbers?

**A. -32 B. -12 C. 12 D. 16 E. NOTA**

33) In Legend of Zelda, everything is displayed in whole numbers. If (6-2)10-328(3+2), then what would be displayed on the screen?

**A. 18 B. 19 C. 20 D. 21 E. NOTA**

34) Link is a very heroic, brave, and rational person. Which of the following is a rational number?

**A. 0.58(3) B. π C. i D.**  **E. NOTA**

35) The first attempt to charm Zelda didn’t go very smoothly and she’s considering being with Ganondorf instead. Dismayed, Link decides he needs another way to grab her heart. He learns that Zelda’s favourite fraction is . Help Link sweep Zelda off her feet by simplifying her favourite fraction.

**A. B. C. D. E. NOTA**

36) Those who have never played the Legend of Zelda game may think that the title is confusing because Zelda is not the main character. This confusion makes Link sad and is the reason why he cries himself to sleep every night. Since Link is not human, but instead a Hylian, his reacts differently from the norm; instead of crying tears, he cries out math. Last night, he cried out the digits of the fraction . If you divide the fraction, what is the digit in the hundredths place of the fraction?

**A. 2 B. 7 C. 5 D. 8 E. NOTA**

37) Link is trying to win a prize from the mini-game shooting gallery. If he wins he will gain a map to locate a chest in the ocean that contains a triforce piece. To win the prize he must find the sum of the distinct prime factors of 1188. Help him figure out the answer.

**A. 12 B. 13 C. 15 D. 16 E. NOTA**

38) Epona is Link’s silver bay horse that appears in most of the Legend of Zelda games and is his main source of transportation. If Epona is only available on days in which she doesn’t have horse races and for every 3 days shes is available she is not available for the next 2 days. How many days will Link have to make other arrangements for other transportation in the month of April knowing that Epona is free on the 1st, 2nd and 3rd of April? (Hint: There are 30 days in April.)

**A. 12 B. 14 C. 16 D. 18 E. NOTA**

39) Link is standing on the point (6, 9) on the coordinate grid. He sends his hookshot to the Deku tree which is located at the point (4, 8). What is the slope of Link’s hookshot?

**A. 2 B. 1 C.**  **D.**  **E. NOTA**

40) Link finds an odd fairy bottle shaped in a rectangular prism. If the dimensions of the solid is 4 by 5 by 2, what is the volume of the rectangular prism?

**A. 8 B. 10 C. 20 D. 40 E. NOTA**

41) Link is a very skilled musician. He can play a variety of songs on his instrument of choice, the ocarina. Ocarinas can have a variety of different numbers of holes; they come in 9, 10, and 12 holed varieties. If Link visits a music store which has 19 9-holed ocarinas, 37 10-holed, and 11 12-holed ocarinas in stock, how many holes are in the store total? Keep in mind that this store sells no other holed instruments. Now, multiply this number by 12.

**A. 1 B. 5 C. 10 D. 8075 E. NOTA**

Use the following information for questions 17-20:

Rupee is the currency in Links world. The main three types of rupees are: Green, blue, and red. A green rupee has a value of one. Blue rupees has values of 5 each; and red rupees are 20 each.

42) Hard times have fallen upon Hyrule. Link has lost a lot of money in the past few years. Link owe Tingle 68 rupees and pays him in the ratio of 4:2:1 (green:blue:red) rupees. How many blue rupees does he pay?

**A. 2 B. 4 C. 8 D. 12 E. NOTA**

43) It costs Link 398 rupees to open a triforce piece chart from Tingle. What is the least number of green, blue, and red rupees combined Link can use to open the triforce piece chart?

**A. 19 B. 37 C. 22 D. 25 E. NOTA**

44) Link wants buy a Hylian Shield from the Market for 80 rupees. However, this exact same shield can be found in a treasure chest at Kakariko Village Graveyard for free. If he does choose to get the shield through the treasure chest, it will require 40 minutes of his time. What is the amount of green rupees he will save per minute of through method?

**A. 20 B. 30 C. 40 D. 50 E. NOTA**

45) Link has been owing Tingle for 372 days now. Tingles demands his rupees back right now. However, Link is a few rupees short. Tingles, being the generous person he is, says he’ll lower the debt to only 26 rupees if Link can solve the following math question:

*If 3x+4y=-8 and x+6y=2, find x+y.* Link correctly solved the problem! What was his answer?

**A. 1 B. -4 C. 3 D. -3 E. NOTA**

46) Link has three distinct swords, three distinct shields, three distinct tunics, and three pairs of boots. How many distinct outfits can he make if he wears one sword, one shield, one tunic, and one pair of boots?

**A. 12 B. 18 C. 27 D. 81 E. NOTA**

47) Jabu-Jabu, the whale like creature, will only open his mouth if you get a fish in a bottle and place it in front of him. However, if Link stands too far from Jabu Jabu’s mouth, he won’t be able to reach the fish and won’t open his mouth. The range for him to open his mouth is a semicircle (half a circle), with radius 4. What is the area for the range that the fish must be in?

**A. 4 B. 8 C. 16 D. 32 E. NOTA**

48) Link and Zelda are on a treasure hunt for rupees. You can find rupees by destroying bushes. If Link can destroy one bush in 24 minutes and Zelda can destroy one bush in 8 minutes, then how many hours will it take to destroy 100 bushes if both of them work together and start at the same time?

**A. 10 B. 15 C. 33⅓ D. 600 E. NOTA**

49) Daniel has finally saved up enough money to buy the game, *The Legend of Zelda: Ocarina of Time*.Since Daniel is a total game addict, he plays the game for 7 hours 43 minutes 27 seconds straight! How many seconds has he been playing the game?

**A. 27,780 B. 3,027 C. 27,807 D. 25,200 E. NOTA**

50) Which of the following companies developed and published the Legend of Zelda games?

**A. Nintendo B. Riot C. Sony D. Toyota E. NOTA**

[](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http%3A%2F%2Fwww.cosplaydeal.com%2Fthe-legend-of-zelda-oni-link-cosplay-costume.html&ei=Bd9bVLT8I4uggwSkyoH4Bg&bvm=bv.78677474,d.eXY&psig=AFQjCNGQKErLJ94mq6od3PcOBDAlBjxs7Q&ust=1415393371223362)