



**Tk ) @ 2/17**

**ENTRANCE TEST**

**A.Y. 2017/2018**

**DO NOT OPEN  
UNTIL YOU ARE GIVEN  
THE SIGNAL  
TO START THE TEST**

## INSTRUCTIONS

It is in your interest to carefully read the instructions contained in this booklet. They are indispensable to carrying out the test in a correct manner. **WARNING:** the time limit assigned to you includes the reading of these instructions as well as the completion of the test.

The test consists of various types of questions. For each question, you will be given three, four or five possible answers. For each question, you must choose *only one* of the answers provided. Choose the most correct answer.

You will find the questions in this booklet. You must mark your answers on the *answer sheet* that has been provided along with the booklet.

Mark your answers by filling in the corresponding box (■) on the *answer sheet*. **ATTENTION:** *do not write your answers in this booklet*. Use the appropriate *answer sheet* that has been provided.

On the *answer sheet*, only fill in the boxes (■) that correspond with the answers that you want to give. Do not make any other marks on the sheet.

**You are not allowed to change your answer once it has been filled in on the *answer sheet*.**

Always check that the number of the question in the booklet is the same as the one placed next to the box in which you mark your answer on the *answer sheet*.

Make sure - before you start - that there are no printing errors in the booklet and/or on the *answer sheet*. If you find any errors, immediately bring them to the attention of one of the assistants who will provide you with a different booklet.

Here are some examples of the kind of questions that you will find in the booklet with explanations for how you should respond. Carefully read the examples and explanations relating thereto.

**Do not write the answers to the examples on the *answer sheet*.** Questions relating to the actual test begin on page 5.

## EXAMPLES

To answer question **E1**, read the following passage:

On the economic front, there are also clear signs of rapid changes; one of which is connected to the restructuring of companies, which is becoming more frequent on average, even to compete internationally.

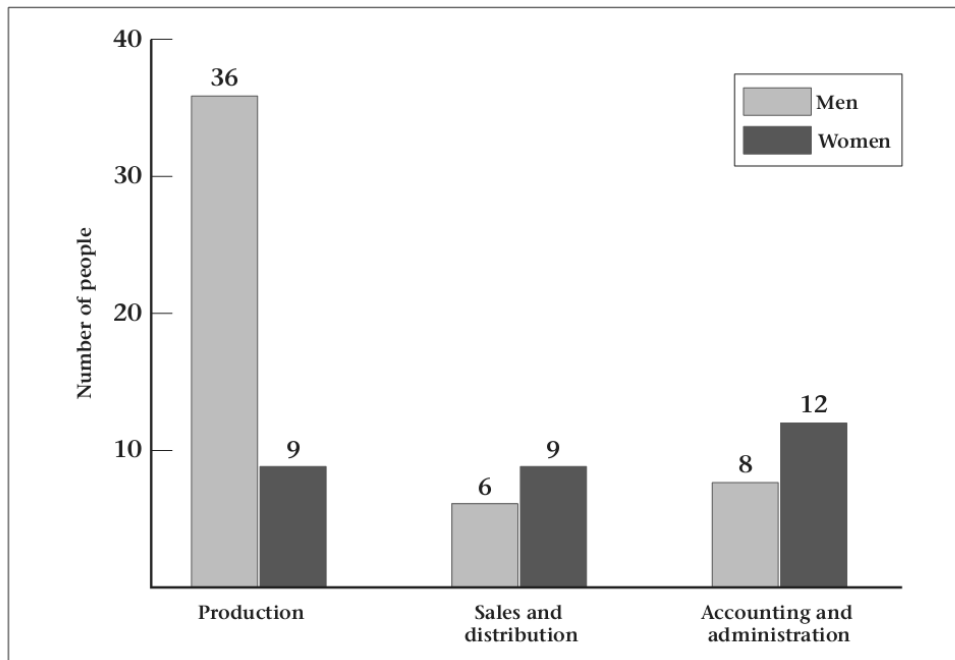
**E1.** After reading the excerpt, it is now known that:

1. small businesses in our country do not have restructuring problems
2. international competition has an impact on the need for companies to restructure more frequently than in the past
3. our products are competitive, especially abroad
4. our country remains economically stagnant for small and medium-sized companies

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Regarding example **E1**, the correct answer is indicated by the number **2**. To answer, therefore, you should **black out box 2** on the *answer sheet*, in correspondence to example **E1**.

Example E2 presents a histogram showing the number of men and women who work in the three departments of the Rossi & C. company.



E2. What is the percentage of women who work at Rossi & C.?

1. 50%
2. 30%
3. 26.5%
4. 37.5%
5. It is not possible to answer on the basis of this data

To find the percentage of women who work at Rossi & C., you need to calculate how many people in total work at the company ( $36 + 9 + 6 + 8 + 9 + 12 = 80$ ). Then, calculate how many of these people are women ( $9 + 9 + 12 = 30$ ). With this data, it is now possible to calculate the percentage ( $30/80$ ), which is equal to 37.5%. Therefore, the correct answer is number 4. To answer, therefore, you should **black out box 4** on the *answer sheet*, in correspondence to example E2.

In example E3, the question regards two people, Massimo and Laura. First of all, a situation that Massimo or Laura believe to be true will be presented. This will be followed by some information (marked with a ●), which you will need to study carefully. You need to establish what effect the new information may have, if indeed it has any effect at all, on the beliefs of Massimo or Laura.

To answer you must black out box as follows:

1. if the new information confirms the beliefs of Massimo or Laura;
2. if it is contrary to their belief;
3. if it has no influence on their belief.

E3. Laura believes that when the lift arrives on her floor, it will beep twice.

- Every time the lift opens on Laura's floor without beeping at all.

Laura's belief concerns the connection between the arrival of the lift on her floor and the sounding of two beeps. The information provided concerns, verified by Laura herself, in which the lift arrived on her floor without beeping at all. Therefore the correct answer is number **2**, because the information is contrary to Laura's belief. To answer therefore, you should **black out box 2** which corresponds with example **E3** on the *answer sheet*.

Inside the test booklet, you will find questions that will test your **knowledge of English**. You will be presented with a passage in English, in which some words are missing and marked with an ellipsis in the text (.....). You will have to choose the option, among the five presented, that you think best fills in the gap to complete the sentence. You will also be presented with some questions concerning **mathematics, history, Italian literature, and logic and reasoning**. Finally, you will be asked to solve some mathematical problems.

In the booklet, you will find questions similar to the above examples. Read each question carefully and give your answer on the *answer sheet*.

**REMEMBER:**

- do not write your answers in this booklet
- give your answers on the *answer sheet* by blacking out the box (■) that corresponds with your answer
- you may not correct answers once filled in
- you will receive 1 point for every correct response, 0 points for multiple or absent answers and -0.25 points for every incorrect answer
- answer all types of questions

**NOW BEGIN AND... GOOD LUCK!**

**START TEST**

**Read the passage below and use the information to answer the following five questions**

With the arrival of winter, it is possible that the sense of frenzy experienced during the warm months drops sharply. In some, the dark and cold weather can trigger the winter blues, as Americans call it. In Italy, however we call it seasonal depression [*depressione stagionale*], referring to that sadness, that sense of fatigue, that lack of pleasure that appear in early autumn and then are resolved in early spring. This disorder would affect periodically, every early autumn, 2-3% of the European adult population. Seasonal Affective Disorder, or SAD, are contained in psychiatry manuals throughout the world and the best known form of SAD is the winter blues, which is manifested by hypersomnia, low mood, poor concentration, excessive guilt or thoughts of death. The most popular theory on the origin of seasonal depression is that our internal clock, which in turn is regulated by the light-dark rhythm, is altered. This anomaly causes changes in the secretion of certain hormones and neurotransmitters involved in mood. To confirm this hypothesis is the proven efficacy of phototherapy: gradual exposure to bright light, in fact, solves more than 70% of cases of winter blues.

1. According to the passage, the winter blues:
  1. is an exclusively American phenomenon
  2. corresponds to the Italian term seasonal depression [*depressione stagionale*]
  3. indicates a particular weather condition
  4. lasts for an unspecified time
  5. is a common form of depression

---
2. Which of these symptoms is present for the most common form of SAD?
  1. Frenzy
  2. Gastrointestinal disorders
  3. Excessive sleepiness
  4. Excessive sweating
  5. Insomnia

---
3. The theory of the origin of the SAD described in this passage:
  1. is still unknown
  2. is based on ancestral theories
  3. is based on the homeostatic mechanism of the human body
  4. takes into account the alteration in the levels of hormones and neurotransmitters
  5. is not based on any empirical evidence

---
4. In accordance with this passage, what kind of treatment might be prescribed for those suffering from SAD?
  1. A more varied diet
  2. Longer periods of rest
  3. Only pharmacotherapy
  4. More frequent social contacts
  5. Sessions of exposure to light

---
5. Based on the statements of this passage, you can assume that in theory it is more likely to observe cases of SAD:
  1. in a country with 20 hours of darkness and 4 hours of light
  2. in a country with 12 hours of darkness and 12 hours of light
  3. in a country with 18 hours of darkness and 6 hours of light
  4. in a country with 6 hours of darkness and 18 hours of light
  5. you cannot answer based on the data reported

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6. Which of the following equivalences is correct?

1. 0.25 l = 2,500 ml
  2. 33 cl = 330 ml
  3. 10 ml = 0.1 cl
  4. 10 dl = 0.01 cl
- 

**Read the passage below and use the information to answer the following five questions**

In front of the Argentario promontory, it emerges the southernmost island of the Tuscan Archipelago. Called "Artemisia" by the Greeks and "Dianium" by the Romans for its unmistakable arc shape, Giannutri is a limestone island characterized by cavernous limestone, ancient sedimentary rocks and a very rugged coastline rich in numerous rocky caves. This island is just 500 metres wide and five kilometres long, in winter is inhabited by about twenty people who enjoy the solitary life in this little paradise. The rocky coastline is interrupted by only two public beaches: Cala Maestra (where the ferry docks) and Cala dello Spalmatoio. Giannutri is famous for the beauty of its seabeds, a delight for scuba diving lovers. Another attraction of the island are the remains of a sumptuous Roman villa that once belonged to the family of Ahenobarbi Domitii and dating from the second century A.D. The highest point of Giannutri is Poggio Capel Rosso (88 metres above sea level) where you can enjoy a spectacular view. The climate is mild in the winter, as the numerous tropical plants (Euphorbia, wild palms trees and orchids) testify, and pleasantly windy in the summer. Giannutri is a favourite destination of small birds such as the Manx shearwater, the weathers and the Marmora's warbler and several herring gulls couples who choose the coast of Giannutri to nest, and hence the island's nickname as the "Island of the seagulls". On Giannutri, there are no hotels and in the period of greatest influx of tourists (from 26 May to 12 October) to protect its beauty and natural features, a maximum of 300 people are allowed per day.

7. In accordance with this passage, Giannutri:

1. is an island in southern Italy
  2. lies to the south of the Tuscan Archipelago
  3. is a rocky beach of the Argentario
  4. is bathed by the Ionian Sea
  5. is renowned for its pink beaches
- 

8. The passage indicates that the name "Artemisia":

1. refers to the goddess of the hunt, Artemis, protector of the islanders
  2. has Roman origin
  3. refers to the goddess of fire
  4. refers to the geographical structure of the island
  5. has Greek origin and is the most frequently used name for the locals
- 

9. Based on the information contained in the passage, which statement on Giannutri is false?

1. It is comparable in size to Corsica
  2. The beach is not very extensive
  3. During winter, the inhabitants do not exceed thirty
  4. One of its features is the beautiful seabed
  5. None of these statements is false
- 

10. The passage indicates among the fauna of Giannutri:

1. numerous tropical plants
  2. cypress and olive trees
  3. birds of various types
  4. starfish on the seabed
  5. none of these answers is correct
- 

11. During the summer period in Giannutri:

1. we witness daily the invasion of thousands of tourists from every place
  2. tourist accommodations are opened
  3. beach resorts vie for the few stretches of beach
  4. the ferry docks at Cala dello Spalmatoio
  5. visitors are limited
-

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12. The difference between two numbers is 20 and one number is  $\frac{1}{5}$  of the other. What are the two numbers?

1. 30 and 10
  2. 40 and 20
  3. 5 and 25
  4. 15 and 35
- 

13. Napoleon Bonaparte died in:

1. St. Helena island
  2. Elba island
  3. Giglio island
  4. Ajaccio
- 

14. Dario, with his phone, is able to type three keys per second. If we want to know how many seconds it takes Dario to compose the telephone numbers of 25 friends, which of the following information we need to know?

1. How many calls a day does Dario make
  2. How many friends does Dario have
  3. How many digits does every single phone number have
  4. The number of keys contained in the phone
- 

15. "The History of Italy" [*Storia d'Italia*] is a work of:

1. Niccolò Machiavelli
  2. Ludovico Ariosto
  3. Francesco Guicciardini
  4. Torquato Tasso
- 

16. "If Sandro is at the sea, then it is summer". Which of the following statements allows you to deduct the argument presented above?

1. Sandro goes to the mountain in winter
  2. Sandro is very tanned
  3. All summers Sandro goes to sea
  4. Sandro goes to sea only in summer
- 

**Consider the data of the table below to answer the next two questions**

Prices charged by some clothing online shops for buying wholesale socks

Online shop	Socks prices
<b>H&amp;N</b>	€ 0.99 per pair; shipping costs 15 euro or for free when spending at least € 150
<b>Zoro*</b>	€ 1.50 per pair; € 1.20 from 31st to 50th pair; € 1 from the 51st pair
<b>OVA</b>	€ 0.99 per pair; € 0.50 from 51st pair; shipping costs € 20
<b>Intimi*</b>	€ 1.50 per pair; € 1 from the 21th pair; a pair for free every 40 pairs

\* Shipping costs included

17. Gaia must order for her clothing store 150 pairs of socks; which online shop is the most inexpensive?

1. H&N
  2. Zoro
  3. OVA
  4. Intimi
- 

18. Gaia realizes that she made the wrong order and is forced to make a new one for 30 pairs of socks, in which online shop would she pay the most for the new order?

1. H&N
  2. Zoro
  3. OVA
  4. Intimi
-

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**Read the passage below and use the information to answer the following five questions**

The Italian national statistics institute (*Istituto nazionale di statistica*; Istat) is an Italian public research organization that is in charge of investigations, studies and analysis aimed at the production of official statistics. The survey conducted in 2013 on the labour market in the European Union (EU) shows that the labour market has been hard hit by the economic crisis. From 2008 to 2013 the number of employed people decreased by 2.6%, reaching approximately 217 million in the EU. The biggest job losses were recorded in southern Europe. In Italy, Spain, Greece and Portugal more than 6 million jobs have been lost in the five-year period (value four times higher than the European average). The number of countries that overall recorded an increase in employment between 2008 and 2013 is reduced and noteworthy among these is Germany, where employment has started to grow again: in fact between 2008 and 2013 Germany saw an increase of over 1,909,000 employees, exceeding the EU average. In Italy the decline in employment involves almost exclusively the men, particularly in manufacturing and construction, while for women's employment, after the drop in 2009, there has been a growth in 2011 and 2012. In 2013, with the recession worsening, a decrease in employment also for women was recorded. Considering overall the years of the crisis, male employment has fallen by 6.9%, compared with a 0.1% decline for women. The female employment rate, however, continues to be very low.

19. From 2008 to 2013 the number of those employed in the EU:

1. decreased by 2.6 million
2. increased by over 1 million and 909 thousand units
3. has reached the value of 2.6 million
4. decreased by 6.2%
5. none of these answers is correct

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20. The passage aims to describe:

1. the situation of the labour market in European Union in a given time period
2. the precarious situation of young people in employment
3. the insufficient policies to ensure gender equality in the workplace
4. the American economic model
5. the improvement in the employment rate recorded in Italy

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21. The employment rate in Spain:

1. is four times higher than the European average
2. recorded a sharp reduction
3. is lower than Germany by 2.6%
4. is slightly higher than Portugal
5. none of these answers is correct

---

22. The passage indicates that the reduction in the employment rate in Italian territory:

1. involves only the young population, with less than 30 years
2. is comparable in both sexes
3. is within the European average
4. is lower for women
5. will tend to increase in the next five years

---

23. The tone of the passage can be defined as:

1. critical
2. sarcastic
3. informative
4. persuasive
5. comic

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24. A factory owner wants to install some solar panels in a dedicated area 300 metres wide and 1.3 kilometres long. If one hectare is equivalent to 0.01 km<sup>2</sup>, how many hectares have been reserved to install solar panels?

1. 3.9
  2. 39
  3. 390
  4. 0.39
-



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25. Which of the following statement is logically equivalent to "Cats always sleep"?

1. Dogs never sleep
  2. Cats hardly ever sleep
  3. If an animal always sleeps, it is surely a cat
  4. Cats are never awake
- 

26. The descendants of the Fanti family have a probability of 75% to have pale skin and slender body. Luisa is a descendant of the Fanti family, then she is more likely to have:

1. pale skin and slender body
  2. pale skin and fat body
  3. pale skin
- 

**Consider the passage below, which must be completed in some parts when replying to the next five questions**

Daisy Hamilton was a private detective. One **(a)** ..... at about eleven o'clock Mrs. Edwina Humphries knocked on her office door. "Hello, can I **(b)** ..... you?" Daisy asked the lady. Mrs. Edwina Humphries told her she was desperate because her little Lorna has disappeared and she was afraid that she has been kidnapped for ransom money. Daisy **(c)** ..... her if also her husband was worried, but Mrs. Edwina said that he wasn't interested at all. "Really, Mrs. Humphries? But is your husband Lorna's real father?" "I don't **(d)** ..... what you mean. We bought Lorna together" replied Mrs. Humphries. Daisy, indignant, screamed at Mrs. Edwina to get out of her office because this was illegal. "Oh Lorna - I've found you at last, you were hiding in my bag!" said Mrs. Humphries. It was clear that Lorna was a snake bought in India. "Oh thank you, my dear. Now I **(e)** ..... think I need your services any longer!".

27. Which of the following words correctly completes the blank space marked with the letter (a)?

1. moment
  2. morning
  3. minute
  4. guest
  5. hour
- 

28. Which of the following words correctly completes the blank space marked with the letter (b)?

1. buy
  2. beat
  3. help
  4. return
  5. see
- 

29. Which of the following words correctly completes the blank space marked with the letter (c)?

1. asked
  2. can
  3. through
  4. made
  5. did
- 

30. Which of the following words correctly completes the blank space marked with the letter (d)?

1. arrive
  2. respond
  3. know
  4. do
  5. confound
- 

31. Which of the following words correctly completes the blank space marked with the letter (e)?

1. will
  2. did
  3. doesn't
  4. don't
  5. can
-

32. Which of the following matches author/work is not correct?

1. U. Foscolo/ The Last Letters of Jacopo Ortis [*Ultime lettere di Jacopo Ortis*]
2. J.W. Goethe/ The Sorrows of Young Werther [*I dolori del giovane Werther*]
3. G. Verga/ History of a Capinera [*Storia di una capinera*]
4. L. Pirandello/ The Mistress of the Inn [*La locandiera*]

33. Tania notices that in her school there are many students from different groups and decide to have fun and assign to everyone a strange name. The largest group of students is Lommi, some of which, however, are Rux. Then there are the Gru, which are all Rux. We can say that:

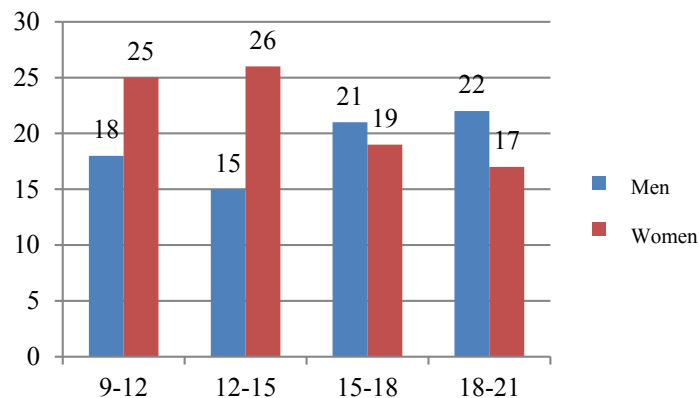
1. Lommi are definitely Gru
2. some Gru are not Rux
3. some Lommi may be Gru
4. a Rux is definitely a Gru

34. Olga tells Sara: "Give me two of your candies, so I'll have twice as many as yours". Sara replied: "Give me one of yours so you will have half as many as mine". How many candies could each have?

1. Olga has 3 and Sara has 6
2. Olga has 8 and Sara has 9
3. Olga has 2 and Sara has 4
4. Olga has 4 and Sara has 5

**Reply to the next two questions referring to the chart below**

Number of contracts closed at different slots of a working day by the operators of a call centre (24h)



35. The total number of contracts closed:

1. tends to decrease during the day
2. is higher for male operators
3. is highest in the slot 12-15
4. is the same in the slots 12-15 and 15-18

36. Looking at the graph, we can conclude that:

1. into the slot 12-15 one female operator closes more contracts than a male one
2. into the slot 15-18 one male operator closes more contracts than a female one
3. into the slot 18-21 there are no male operator in the call centre
4. the female operators close more contracts than the male ones in the first part of the working day and vice versa in the second part

37. Who is the author of *Didone abbandonata*?

1. Giambattista Marino
2. Giuseppe Parini
3. Pietro Metastasio
4. Torquato Tasso

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38. Two masons must complete two rooms. The first works in a square room with a perimeter of 24 metres, while the second works in a square room whose perimeter is 20% larger than the first one; what is the measure of the wall of the second room?

1. 7.2 metres
  2. 5.25 metres
  3. 8.75 metres
  4. 7 metres
- 

39. Lucia wants to buy a new coat and on the price tag sees that there is a 25% discount. If Lucia pays € 75 for the coat, how much did she save?

1. € 52
  2. € 25
  3. € 50
  4. € 17.5
- 

**Reply to the next eight questions by blacking out the box on the *answer sheet* as follows:**

1. if the new information confirms the beliefs of Debora or Luigi;
2. if it is contrary to their belief;
3. if it has no influence on their belief.

40. Debora thinks that the flowers that she received as a present from her husband Luca are very fragrant.

- Debora is happy to receive from Luca a beautiful bouquet of flowers for their anniversary.
- 

41. Debora is convinced that she recently refuelled her car.

- Marco noticed that in Debora's car the fuel warning light is on.
- 

42. Luigi believes that the sales in his store will decrease during the summer.

- The turnover of Luigi's store shows an increase in August by 25% as compared to the previous month.
- 

43. Debora believes that Alberto is not interested in becoming an associate of the Coorpora, the company for which he works.

- Luca confides to Debora that Alberto is not happy with the role he has in Coorpora.
- 

44. Luigi believes that his boss is surly and vindictive.

- Luigi notices that in his office there have been numerous dismissals.
- 

45. Luigi thinks that the cold he has recently caught was not good for his health.

- Sara has known that Luigi is sick because he caught cold.
- 

46. Debora is afraid that Rossi S.p.A., the company she works for, is not financially stable.

- Debora has heard some of her colleagues at Rossi S.p.A. mention the possibility of an income assistance period in the company.
- 

47. Luigi believes that Marco is a skilled swimmer.

- Luigi knows that last week Marco was at the local pool and thanks to the lifeguard's intervention he is not drowned.
- 

48. In an office with 32 employees, 12,000 grams of coffee are consumed every three days. If other 4 employees were hired, how many kilograms of coffee will be consumed in seven days?

1. 31.5
  2. 31,500
  3. 35
  4. 31
- 

49. The sum of the numerical coefficients of  $(-2x - 4y)^2$  is:

1. -16
  2. 36
  3. 16
  4. 32
-

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50. Ugo is Luca's father and Luca is Giulio's brother; Roberto is Ugo's brother and Rosa is Luca's mother. Based on this information, who is Roberto?

1. Giulio's uncle
2. Rosa's cousin
3. Giulio's brother in law
4. Luca's grandfather

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51. Write the equation of a circle with centre  $C(1; 3)$  and a radius  $r = 7$ .

1.  $(x - 1)^2 + (y - 3)^2 = 7$
2.  $(x - 1) + (y - 3) = 49$
3.  $(x - 1)^2 + (y - 3)^2 = 49$
4.  $(x - 1)^2 + (y + 3)^2 = 7$

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52. The action taken by the Catholic Church in the 16th and 17th century to restore a more intense, lively, sincere and disciplined religious life is defined as:

1. Protestant Reformation
2. Counter-Reformation
3. Index
4. Council

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53. What is the *ancien régime*?

1. An expression indicating the economic and social crisis that burst in France in the late 17th century
2. An expression coined by the French revolutionaries to indicate the limits of the absolute monarchical State, the division of society in classes and the survival of feudal privileges
3. An expression used to indicate the French revolutionary movement, characterized by radical programs
4. None of these answers is correct

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54. For her son's party Maria wants to serve muffins. If she distributed 3 to each person, 1 is left, while if she distributed 4 to each, 3 would be missing. Which of the following could be the number of muffins served at the party?

1. 10
2. 20
3. 13
4. 16

---

55. A mason builds  $\frac{2}{3}$  of a wall using 200 bricks. How many bricks are used to complete in the same way the remaining part of the wall?

1. 100
2. 50
3. 60
4. 85

---

56. Read the passage below carefully

The Cooper's Hill Cheese Rolling and Wake is an annual event at Cooper's Hill, near Gloucester in England. It is now a world famous event, but it originated in the local village of Brockworth. In 2013, it was an American and Japanese man who each won one of the four races. A 9 pound round of Double Gloucester cheese is rolled down a hill, with people running down the hill after it. The first person over the finish line wins the cheese. The cheese can reach speeds of up to 70 mph, enough to injure someone. Another unusual competition is the UK Wife Carrying Race held in Dorking, Surrey. It originated in the UK on 8th June 793 AD, when Viking raiders invaded the northeast coast of England, carrying off any unwilling women. In this race men or women have to carry a "wife" (who can be a man or a woman), and run 380 m. "Wives" must be at least 50 kg, or wear a bag filled with tins to bring them to 50 kg.

According to the passage, what do participants of the Cheese Rolling and Wake win?

1. A form of cheese
  2. A medal
  3. A Japanese food
  4. A wife
  5. Nothing
-

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57. "The Rules of the Game" [*Il giuoco delle parti*] is a work by:

1. Luigi Pirandello
  2. Vittorio Alfieri
  3. Eduardo De Filippo
  4. Ludovico Ariosto
- 

58.  $\log 25^{42}$  corresponds to:

1.  $42 \times \log 25$
  2.  $42 + 25 \log$
  3.  $\log (42 \times 25)$
  4.  $1/42 \times \log 25$
- 

59. "If you win the medals, then you are an athlete". If this statement is true, then it is certainly true that:

1. if you do not win the medals, you are an athlete
  2. if you win the medals, you are not an athlete
  3. if you do not win the medals, you are not an athlete
  4. if you are not an athlete, you do not win the medals
- 

60. If the measure, in centimetres, of the diameter of a circle is  $2^{-4}$ , the measure of its radius, in centimetres, is:

1.  $1/32$
  2.  $1/16$
  3.  $2^{-2}$
  4.  $1/4$
- 

61. Which of the following can be inferred from the claim "When she paints with tempera, Rosa always stains her clothes"?

1. Rosa didn't paint with tempera; therefore she hasn't stained her clothes
  2. Rosa has stained her clothes, therefore she painted with tempera
  3. Rosa did not paint with tempera, therefore she stained her clothes
  4. Rosa hasn't stained her clothes, therefore she did not paint with tempera
- 

62. Maura's age is equal to the age she was five years ago multiplied by 3 minus her age 6 years ago, plus 3 years. How old is Maura?

1. 8
  2. 12
  3. 6
  4. 30
- 

63. Knowing that "All Venetian employees of the Blue & Co. are precise", it can be stated that:

1. if an employee of Blue & Co. is Venetian, then he/she is precise
  2. there are no precise Venetian employees who do not work at Blue & Co.
  3. all employees of Blue & Co. are precise
  4. if an employee of Blue & Co. is precise, then he/she is Venetian
- 

64. Read the passage below carefully

During the 18th century, chemistry made great advances. In 1766, for example, a man named Henry Cavendish isolated hydrogen and studied its properties. Perhaps, the greatest chemist of the 18th century was Antoine Lavoisier: he discovered that during combustion oxygen combines with substances. He also discovered the role of oxygen in respiration and corrosion of metals. Meanwhile people began to investigate electricity. In 1752, Benjamin Franklin proved that lightning is a form of electricity. By contrast, medicine made slow progress. Doctors still did not know what caused disease. Some continued to believe in the theory of four humors (although this theory declined during this century) and other doctors thought diseases were caused by "miasmas", intended as odorless gases in the air.

According to the passage, which scientist made the greatest progress in Chemistry in the 18th century?

1. Benjamin Franklin
  2. Antoine Lavoisier
  3. Henry Cavendish
  4. The pioneer of the theory of four humors
  5. The discoverer of "miasmas"
-

65.  $\log_5 125$  corresponds to:

1. 25
  2. 5
  3. 3
  4. 0
- 

66. 7 girls enter a florist, and they purchase altogether 6 daisies. Which of the following statements is definitely true?

1. There is only one girl who bought a single daisy
  2. No girl has purchased more than two daisies
  3. At least one girl did not buy any daisy
  4. There is only one girl who did not buy anything
- 

67. "Rebecca has more friends than Roberto; Roberto has fewer friends than Giulia; Giulia is the one that has the most friends among the three". Based on these statements, which of the following statements is necessarily true?

1. Roberto has more friends than Rebecca
  2. Rebecca has more friends than Giulia
  3. Giulia has fewer friends than Roberto
  4. Rebecca has fewer friends than Giulia
- 

68. If the statement "all psychology students are shy" is false, which of the following propositions is necessarily true?

1. At least one psychology student is not shy
  2. No psychology student is shy
  3. Only some psychology students are shy
  4. The majority of the psychology students is not shy
- 

69. "There is no reason to exclude the presence of oil in that field. So we have to keep drilling". This argument assumes that:

1. there is oil in that field
  2. the possibility of finding oil in that field is a sufficient reason to drill
  3. that field is the only one that contains oil
  4. no one has ever found oil in that field
- 

70. An explorer comes across an unknown village where people have a strange greeting for people they meet. If a resident says "hello" the answer is "two", when he says "hi" the answer is "one"; finally saying "hi there" the answer is "three". At one point, a resident says to the explorer "good morning sir". What does the explorer answer to reciprocate the greeting?

1. 9
  2. 5
  3. 3
  4. 4
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