



Republic of the Philippines

**CIVIL SERVICE
COMMISSION**

***Philippines Civil Service Exam
Complete Reviewer
for 2019***

Philippines Civil Service Exam Complete Reviewer

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Detailed solutions for Math are solved by: Leonalyn Mutia-Tayone

For any questions or clarification, just PM me.

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I made this **FREE** for everyone and hopefully you will pass these coming 2019 exams

All of these are taken from various online reviewers and books, and previous CSE exams (shared by those who took the exam).... while I provided the detailed solutions for Math problems.

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EXAMINEES DESCRIPTIVE QUESTIONNAIRE

The 20 items that follow are information about you. Please supply the information as HONESTLY and ACCURATELY as you can.

The data that will be obtained from these items shall be held strictly confidential.

Each item is followed by several possible answers. On your sheet, shade completely the box that corresponds to the number of the answer that specifically pertains to you.

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1. Sex : 1. Male 2. Female
2. Civil Status : 1. Single 2. Married
 3. Widow/widower 4. Separated/Divorce
3. Age bracket where you belong :
 1. 18-24 years old 2. 25-31 years old 3. 32-28 years old
 2. 39-45 years old 5. More than 45 years old
4. Highest educational attainment:
 1. College graduate 2. Diploma/Certificate
 3. With Master's Units 4. Master's Degree
 5. With Ph.D. Units/Degree
5. Year of last attendance in school :
 1. Before 1985 2. 1986-1990 3. 1991-1995
 4. 1996-2000 5. After 2000
6. What honours did you receive when you graduated from college?
 1. Summa Cum laude 2. Magna Cum laude 3. Cum laude
 4. Other academic award 5. None/not applicable
7. Present employment:
 1. Government 2. Private 3. Self-employed
8. Type of present job:
 1. Professional/Technical/Scientific
 2. General Clerical
 3. Trades and crafts (jobs requiring manual dexterity of application of manual/mechanical/artistic skills)
 4. Others
 5. Not applicable
9. Length of experience in present job:
 1. Less than one year
 2. One to two years
 3. Three to four years
 4. More than four years
 5. Unemployed

10. Do you have any of the following first level eligibilities:
 Second Grade, Municipal/Provincial Clerk, General Clerical, Career Service Sub-Professional(Local Government), Career Service Sub-professional
 1. Yes 2. No
11. For what reason are you taking this examination?
 1. Entrance to government service
 2. Change of appointment status
 3. Promotion
 4. Others
12. How many times have you taken the Career Service Professional? Examination excluding this one?
 1. Once 2. Twice 3. Thrice
 4. More than thrice 5. Never
13. Which of the following activities did you undertake in preparing for this examination?
 1. Enrolled in review centers
 2. Studied career service examination reviewers sold at bookstore
 3. Engage in other activities
 4. Used a combination of 1 and 2.
 5. No preparation done at all

Items 14 to 16 (For Government Employees Only):

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14. Category of government office where employed:
 1. National government
 2. Local government (province/city/municipal)
 3. Government-owned or controlled corporation
 4. Constitutional office
 5. State college or university
15. Status of present appointment in government service:
 1. Permanent 2. Temporary 3. Casual/Emergency
 4. Contractual 5. Substitute
16. Years of experience in government service:
 1. Less than 5 years 2. 5-9 years 3. 10-14 years
 4. 15-19 years 5. More than 19 years

Items 17 to 20

In which of the following types of work do you consider yourself best qualified? Choose only two from among the options listed in items 17-20. Shade the boxes that corresponds to your choices. For example, if you think you are best qualified in budget management, and project planning/management, shade box no. 2 of item 17 and box no. 3 of item . Leave items 18 and 20 blank. If you think you are best qualified in research/report including statistical analysis, shade box no. and no. 2 of item 20 on your Answer sheet, and leave items and 19 blank.

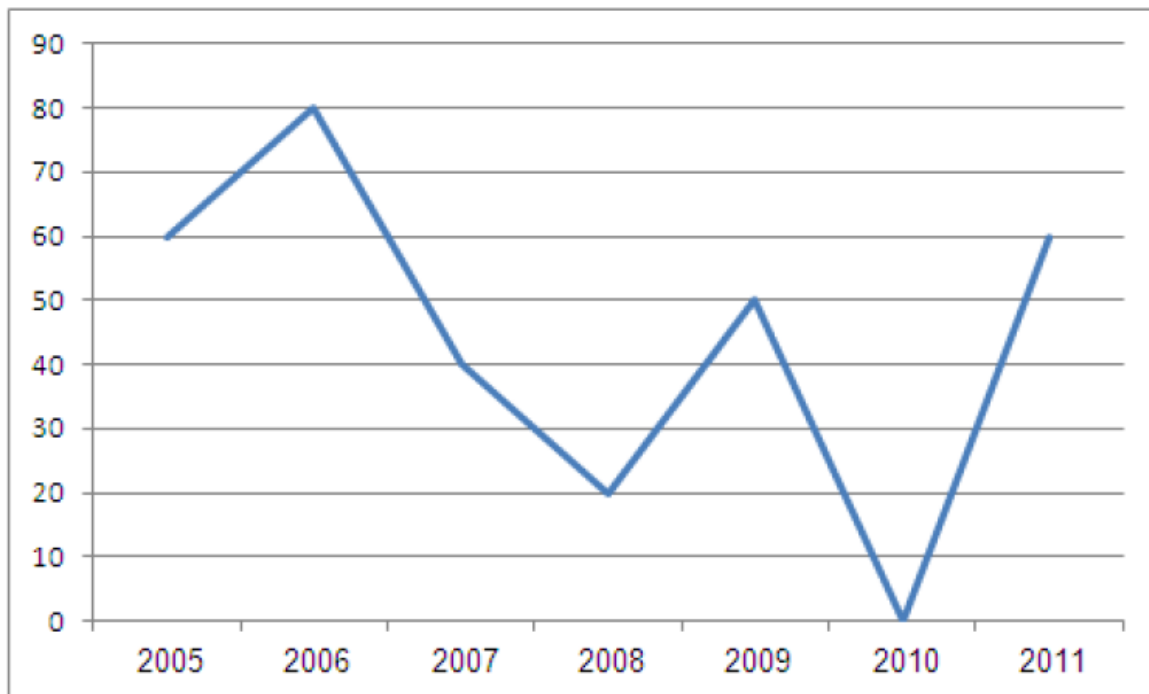
17. 1. Accounting 2. Budget Management
 3. Buying/Purchasing 4. Co-ordination
 5. Computer Operations

18. 1. EDP Computer Programming
2. EDP System Analysis and Design
3. Human Resource Development
5. Management and Audit Analysis
19. 1. News/Feature Writing
3. Project Planning/Management
4. Public Relation Work
5. Records Management
20. 1. Research / Report Writing
3. Stenography
5. None of the Above
2. Personal Recruitment/Selection
2. Statistical Analysis
4. Supplies Management

*** TEST BEGINS HERE ***

GRAPHS / Charts / Data Free reviewer for all... arranged by Leonalyn Mutia-Tayone

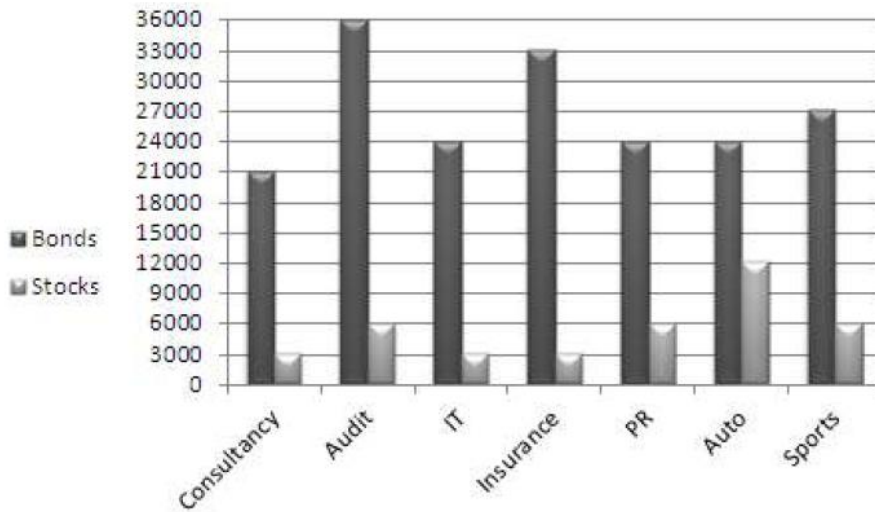
Introduction to Economics Exam Statistics (% of students who passed)



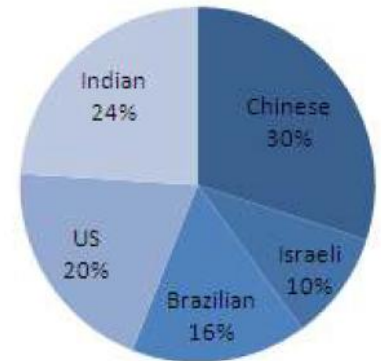
1. In which of the following years did over 2/3 of the students who took the exam not pass it?
a. 2005 b. 2006 c. 2008 d. 2009 e. Cannot say
2. It is known that a quarter of the students who passed the exam in 2007, passed it at the first trial. Assuming each exam has two trials, what percentage of all the students who took the exam that year passed it in the second trial?
a. 10 b. 15 c. 30 d. 75 e. Cannot say

T.M. Funds - 2011

Distribution of Securities (000s)

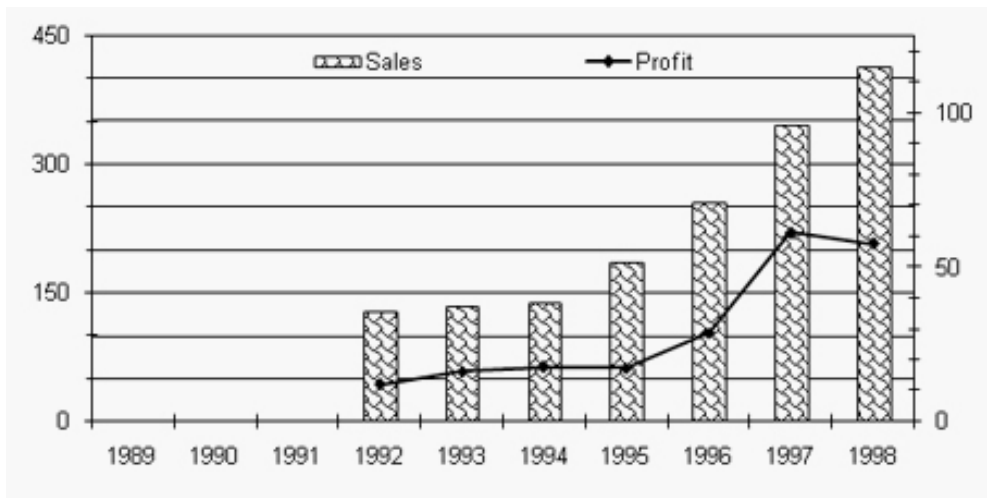


Origin of Insurance Securities



3. If the number of Chinese Insurance stocks represented 3.5% of all Insurance securities, approximately how many Insurance bonds were Chinese?
- 9,200,000
 - 9,500,000
 - 10,800,000
 - 910,000
 - 1,080,000

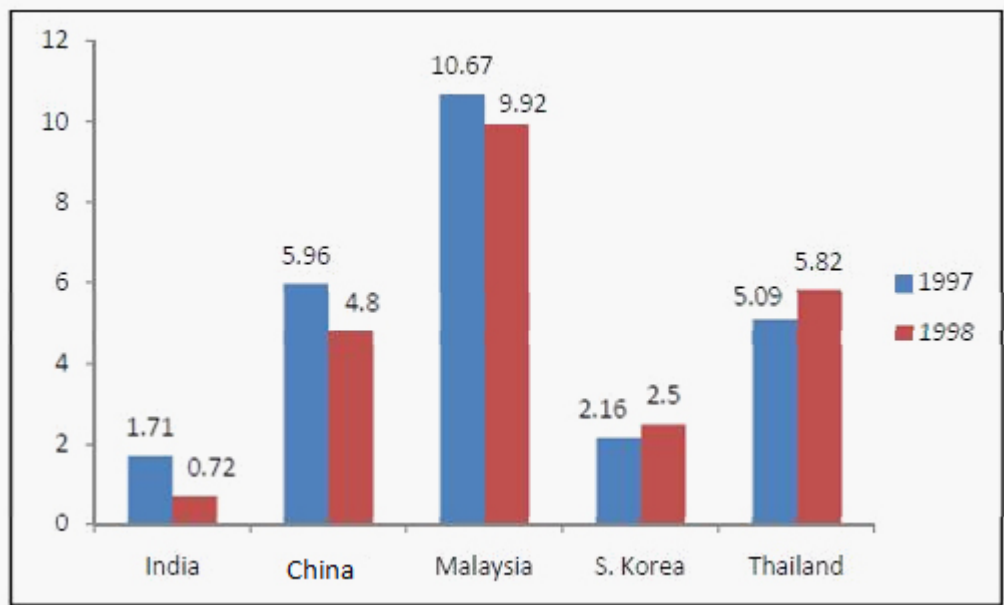
For questions 4 to 6, Refer to the following graph of sales and profit figures of ABC Ltd and answer the questions that follow.



- Return on sales (Profit/sales) was highest in which year?
 - 1995
 - 1996
 - 1997
 - 1998
 - cannot say
- How many times return on sales (profit/sales) exceeded 15%?
 - once
 - twice
 - thrice
 - four times
 - never
- How many times growth in profit over the previous year exceeded 50% was registered?
 - once
 - twice
 - thrice
 - four times
 - never

For questions 7 to 9: The following graph shows the data related to Foreign Equity Inflow (FEI) for the five countries for two years- 1997 and 1998. FEI is the ratio of foreign equity inflow to the country's GDP, which is expressed as a percentage in the following graph.

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7. Find the ratio between FEI for Malaysia in 1997 and FEI for Thailand in 1998
 a.) 7 : 25 b.) 8 : 21 c.) 6 : 11 d.) 1067 : 582 e.) cannot say
8. Name the country which has the minimum change in the FEI
 a.) India b.) China c.) Malaysia d.) S.Korea e.) cannot say
9. If, Education sector in Thailand had 25% of FEI in 1997 and 60% of FEI in 1998, then find the approx ratio of the amounts allocated to Education in 1997 to 1998. (Assume the GDPs of both of these years for Thailand is same.)
 a.) 1 : 5 b.) 25 : 72 c.) 6 : 11 d.) 7 : 25 e.) cannot say

for question #10

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	Brazilian Real	Canadian Dollar	Euro	British Pound	Japanese Yen	Swiss Franc	U.S. Dollar
USD(\$)	2.28	1.14	0.83	0.56	118.5	1.29	-----
Euro(€)	2.74	1.37	-----	0.6	142.4	1.55	1.20
Yen(¥)	0.019	0.009	0.007	0.005	-----	0.011	0.008

10. A rumour about an upcoming recession in Japan has reduced the value of the Yen 7% compared with the Euro. How many Euros can you now buy for 500 Yen?
 a. 3.5 b. 3.26 c. 3.15 d. 3.76 e. None of the above

Vocabulary

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- 11.) Sila ay nagdadamayay sa hirap at ginhawa. Sila ay totoong “naghihiramang suklay”
a.) mag asawa b.) magkapatid c.) magkaibigan d.) magka anak
- 12.) There is no PANACEA that will solve our financial difficulty.
a.) cure-all b.) answer c.) paradox d.) criteria
- 13.) DEBACLE
a.) introduction b.) conflict c.) disaster d.) assault
- 14.) LAGASAW
a.) tunog ng pag-yak b.) tunog ng hangin c.) tunog ng alon d.) tunog ng busina
- 15.) KABAL
a.) sepal b.) kaban c.) unawa d.) agimat
- 16.) HAGINIT
a.) hagikhhik b.) hambalang c.) handusay d.) harurot
- 17.) DALAHIKAN
a.) daungan b.) istambayan c.) palaruan d.) dagat
- 18.) FORBEARANCE
a.) attitude b.) stubbornness c.) generosity d.) patience
- 19.) ALLEGIANCE
a.) loyalty b.) solemnity c.) intelligence d.) sincerity
- 20.) GRUNGY
a.) fashionable b.) brittle c.) dirty d.) warm
- 21.) PROSCRIBE
a.) record b.) promote c.) forbid d.) interpret
- 22.) HULAS
a.) litaw b.) lusaw c.) hilaw d.) durog
- 23.) DALAHIRA
a.) matulungin b.) tsismosa c.) pustura d.) madalasin
- 24.) BARAL
a.) metal b.) trangka c.) santo d.) sulat
- 25.) DULANG
a.) mahabang hapag b.) uri ng isda c.) malungkot na drama d.) makasaysayang tula
- 26.) GULA-GULANIT
a.) lukot-lukot b.) punit-punit c.) iba-ibang kulay d.) buhol-buhol
- 27.) LAGAK
a.) tuyot b.) tungga c.) pigtal d.) deposito
- 28.) DALAHIKAN
a.) daungan b.) istambayan c.) palaruan d.) dagat
29. CANTANKEROUS
a.) ill-advised b.) offensive c.) greasy d.) quarrelsome
30. PERAMBULATE
a.) move back and forth b.) walk c.) disbelieve d.) investigate

Idiomatic Expression & Correct Grammar/Spelling:

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31. 1. A pretty penny means _____.
- If something costs a pretty penny, it is very expensive.
 - If something costs a pretty penny, it is very inexpensive.
 - If something costs a pretty penny, it is very precious.
 - If something costs a pretty penny, it is very unimportant.
- 32.. Come out of your shell means _____.
- If someone comes in of their shell, they never stop being shy and withdrawn and become more unfriendly and sociable.
 - If someone comes out of their shell, they stop being shy and withdrawn and become more friendly and sociable.
 - If someone comes out of their shell, they never stop being shy and withdrawn and become more friendly and sociable.
 - If someone comes in of their shell, they stop being shy and withdrawn and become more un friendly and unsociable.
- 33.. Derring-do means _____.
- If a person shows derring-do, they show unwillingness.
 - If a person shows derring-do, they show shyness.
 - If a person shows derring-do, they show great courage.
 - If a person shows derring-do, they show pettiness.
34. Hot water means _____.
- If you get into hot water, you get into trouble.
 - If you get into hot water, you get a lucky day.
 - If you get into hot water, you get a bad day.
 - If you get into hot water, you get a burn skin.
35. Keep abreast means _____.
- If you keep abreast of things, you stay uninformed about developments.
 - If you keep abreast of things, you stay informed about developments.
 - If you keep abreast of things, you stay informed about things.
 - If you keep abreast of things, you stay informed about life
36. There are times when you must decide and "take the bull by the horns."
- make the right decision
 - make a bold decision
 - make the wrong decision
 - make a final decision
37. He "leads a dog's life" really because his freedom is always curtailed.
- never knows what to do
 - never goes out
 - sometimes does something wrong
 - never does what he wants
38. No-one ever mentions him because he's regarded as the "black sheep of the family."
- the one with a sense of humour
 - the one who is always late
 - the one with a bad reputation
 - the one who never washes
39. I shouldn't go outside without a raincoat because "it's raining cats and dogs."
- it's just started to rain
 - it's raining very heavily
 - it's going to rain
 - it's raining a little
40. You shouldn't sign there I think he's about "to make a monkey out of you."
- to make a fool of you
 - to make you feel stupid
 - to make you lose money
 - to make you lose interest

For each of the following sentences, choose the correct spelling for the missing word.

41. She had to buy a _____ of shoes to match her dress.
a. pair b. pear c. pare d. peer
42. The _____ of the school asked all faculty members to attend a meeting.
a. principal b. principle c. precept
43. The _____ of the perfume was intoxicating.
a. accent b. sent c. cent d. scent
44. The room was completely _____ of furniture.
a. beer b. bear c. bare
45. _____ only four o'clock in the afternoon.
a. It's b. Its c. He's
46. Creativity is _____ best asset.
a. you're b. your
47. The _____ in the mountains was peaceful and still.
a. air b. heir c. ear d. ere
48. Take the _____ to the second floor.
a. steers b. stares c. stairs
49. She boarded a _____ to San Francisco last night.
a. plane b. plain
50. He had a reputation for being very ___ and self-centered.
a. vain b. vane c. vein

Analogy and Logic Test

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51. Genuine : Authentic :: Mirage : _____
a. Illusion b. Image c. Hideout d. Reflection
52. SECLUSION : HERMIT ::
a. wealth: embezzler b. ambition : philanthropist c. domination : athlete
d. turpitude : introvert e. injustice : lawyer
53. philanthropist : munificence ::
a. aristocrat : gratitude b. skeptic : disbelief c. symptom : treatment
d. anomaly : plausibility e. cynic : melancholy
54. Vague : Nebulous : :
a. spectacular : legitimate b. mundane : commonplace
c. magical : impressive d. steep : shallow
55. Diaphanous : Opaque
a. dishevelled : messy b. disconsolate : happy c. disrespectful : injurious
d. disallow : reject e. distraught : calm
56. FRAME : PICTURE
a. display : museum b. shelf : refrigerator c. mechanic : electrician
d. nail : hammer e. fence : backyard
57. SEARCH : FIND
a. sleep : wake b. explore : discover c. draw : paint
d. think : relate e. walk : run
58. PHARMACY : DRUGS
a. mall : store b. doctor : medicine c. bakery : bread
d. supermarket : discount store e. toys : games

59. LAYER : TIER

- a. section : segment
- d. chapter : verse

- b. dais : speaker
- e. cotton : bale

c. curtain : stage

60. METROPOLITAN : URBAN

- a. bucolic : rural
- d. autumn : harvest

- b. sleepy : nocturnal
- e. agrarian : generous

c. agricultural : cow

61. TEACHER : SCHOOL

- a. actor : role
- d. judge : courthouse

- b. mechanic : engine
- e. author : book

c. jockey : horse

62. CAR : GASOLINE

- a. truck : trailer
- d. boat : ocean

- b. car : garage
- e. deck : house

c. bicycle : feet

63. RUN : JOG

- a. trot : race
- d. juggle : bounce

- b. swim : dive
- e. rain : drizzle

c. dance : ballet

64. RADIO : TELEVISION

- a. electricity : lightning
- d. nose : face

- b. up : down
- e. old : new

c. ear : eye

65. TAILOR : SUIT

- a. scheme : agent
- d. mention : opinion

- b. edit : manuscript
- e. implode : building

c. revise : writer

66.) The history book has more pages than the poetry book, but fewer pages than the math book. The math book has more pages than the science book but fewer pages than the English book. The poetry book has the fewest pages.

If the first two statements are true, the third is

- a.) true
- b.) false
- c.) uncertain

67.) Subscribing to Cable T.V. is a luxury. All luxuries are needless expenditures. Having a cellular phone is not a luxury. Dining in a Five-Star hotel is a needless expenditure

CONCLUSION:

- a.) Having a cellular phone is not a needless expenditure
- b.) Subscribing to Cable TV is a needless expenditure
- c.) Subscribing to cable TV is not a needless expenditure
- d.) Dining in a Five-Star hotel is not a luxury
- e.) Dining in a Five-Star hotel is a luxury

68.) A factory worker has five children. No one else in the factory has five children.

- a.) All workers in the factory have five children each.
- b.) Everybody in the factory has children.
- c.) Some of the factory workers have more than five children.
- d.) Only one worker in the factory has exactly five children.

69.) Television convinces viewers that the likelihood of their becoming the victim of a violent crime is extremely high; at the same time by its very nature, TV persuades viewers to passively accept whatever happens to them.

- a.) TV viewing promotes criminal behaviour.
- b.) TV viewers are most likely to be victimized than others.
- c.) People should not watch TV.
- d.) TV promotes a feeling of helpless vulnerability in viewers.

70.) The government is soon going to introduce a bill which would permit the instituting of private universities under very strict directions.

- a.) We have some private universities in our country even now.
- b.) The demand for more universities is being stepped up.
- c.) Such directions can also be issued without informing the Parliament.
- d.) The government gives directions to establish anything in private sector.
- e.) Unless and until the directions are given, the private universities can charge exorbitant fees.

71.) All the tulips in Zoe's garden are white.
All the pansies in Zoe's garden are yellow.
All the flowers in Zoe's garden are either white or yellow.
If the first two statements are true, the third statement is
a. true.
b. false.
c. uncertain.

72.) Tom puts on his socks before he puts on his shoes.
He puts on his shirt before he puts on his jacket.
Tom puts on his shoes before he puts on his shirt.
If the first two statements are true, the third statement is
a. true.
b. false.
c. uncertain.

73.) Three pencils cost the same as two erasers.
Four erasers cost the same as one ruler.
Pencils are more expensive than rulers.
If the first two statements are true, the third statement is
a. true.
b. false.
c. uncertain.

74.) A jar of jelly beans contains more red beans than green.
There are more yellow beans than red.
The jar contains fewer yellow jelly beans than green ones.
If the first two statements are true, the third statement is
a. true.
b. false.
c. uncertain.

75.) A toothpick is useful.
Useful things are valuable.
A toothpick is valuable.
If the first two statements are true, the third statement is
a. true.
b. false.
c. uncertain.

Reading Comprehension

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76.) READING COMPREHENSION

There are no effective boundaries when it comes to pollutants. Studies have shown that toxic insecticides that have been banned in many countries are riding the wind from countries where they remain legal. Compounds such as DDT and toxaphene have been found in remote places like the Yukon and other Arctic regions.

This paragraph best supports the statement that

- a. toxic insecticides such as DDT have not been banned throughout the world.
- b. more pollutants find their way into polar climates than they do into warmer areas.
- c. studies have proven that many countries have ignored their own anti-pollution laws.
- d. DDT and toxaphene are the two most toxic insecticides in the world.

77. READING COMPREHENSION

Most researchers in needy countries are based on the thinking and approach of the highly developed Western world, and seldom have they been directed toward meeting the countries; own development needs.

The sentence best supports the statement that _____.

- a. highly developed countries offer the best guide for the development of needy countries
- b. most researchers done in needy countries are missing their objectives
- c. most researchers have universal application
- d. needy countries need researchers to help them reach the status of the western world
- e. needy countries spend so much time for conducting researchers

78. Critical reading is a demanding process. To read critically, you must slow down your reading and, with pencil in hand, perform specific operations on the text. Mark up the text with your reactions, conclusions, and questions. When you read, become an active participant.

This paragraph best supports the statement that

- a. critical reading is a slow, dull, but essential process.
- b. the best critical reading happens at critical times in a person's life.
- c. readers should get in the habit of questioning the truth of what they read.
- d. critical reading requires thoughtful and careful attention.
- e. critical reading should take place at the same time each day.

79. Two person look out through the same bars; one sees mud and the other, the stars.

The sentence best supports the statement that _____.

- a. some people are more blind than others
- b. people see things differently depending on their own perspective
- c. people have varied ways of looking at different things
- d. people have different tastes and interests
- e. people tend to influence one another's views of things

80. Nagawang mabago ng mga kasalukuyang awitin ang kamalayan ng Pilipino upang kantahin ang sarili niyang mga awit sa tanging wikang nakapagsasatinig sa kanyang kaluluwa.

Isinasaad ng pangungusap na _____.

- a. madamdamin at makabuluhan ang mga awiting isinulat sa wikang Pilipino
- b. tagumpay ang mga awiting Pilipino na mabago ang kaugalian ng mga tao Pilipino
- c. madaling matutuhan ang mga awiting Pilipino dahil ang mga ito ay nasusulat sa katutubong wika
- d. natututuhan nang tangkilikin ng mga Pilipino ang kanilang mga sariling awitin
- e. nagkakaroon na ng kamalayan ang mga Pilipino tungkol sa lahat ng mga awitin ngayon

81. Sixty years ago I know everything ; now I know nothing ; education is a progressive discovery of our own ignorance.

The sentence best supports the statement that _____.

- a. the older we get, the more we forget what we have learned
- b. the older we get, the more knowledgeable we become
- c. the more we learn, the more we realize that there's more we need to know
- d. we learn more as we grow old
- e. ignorance is a lifelong experience

82. In a modern economy, the results of long-range planning frequently depend upon the future value of money. The ability then to predict the value of money is a key to economic progress.

The paragraph best supports the statement that _____.

- a. the value of money is unpredictable at times
- b. the unpredictability of money is an obstacle to a nation's prosperity
- c. economic progress is facilitated by properly controlling budgetary expenses
- d. long-range planning is unheard of in traditional economies
- e. financial planning is indispensable in modern economy

83. Ang pagbaba ng halaga ng piso lumikha ng krisis sa maraming industriya ng bansa. Kasunod nito ang pagtitipid at problema sa kawalan ng mapasukang trabaho. Lumikha rin ito ng pagtataas ng presyo ng mga bilingin na labis nakaapekto sa kita ng mga manggagawa.

Ayon sa talata _____.

- a. ang kasalukuyang krisis ay bunga ng mga mahal na bilingin at kawalan ng mapasukang trabaho.
- b. ang krisis ay nakaapekto sa hangarin ng maraming industriya na makapagbigay ng karagdagang sahod sa kanilang mga manggagawa
- c. dumarami ang mga walang hanapbuhay at tumataas ang halaga ng mga bilingin dahil sa krisis
- d. maraming industriya ang nalulugi dahil sa krisis kaya itinataas din nila ang presyo ng kanilang mga produkto
- e. dahil sa krisis, maraming industriya ang napilitang magsara

Questions 84–92 are about the following passage.

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When another old cave is discovered in the south of France, it is not usually news. Rather, it is an ordinary event. Such discoveries are so frequent these days that hardly anybody pays heed to them.

However, when the Lascaux cave complex was discovered in 1940, the world was amazed. Painted directly on its walls were hundreds of scenes showing how people lived thousands of years ago. The scenes show people hunting animals, such as bison or wild cats. Other images depict birds and, most noticeably, horses, which appear in more than 300 wall images, by far outnumbering all other animals.

Early artists drawing these animals accomplished a monumental and difficult task. THEY did not limit themselves to the easily accessible walls but carried their painting materials to spaces that required climbing steep walls or crawling into narrow passages in the Lascaux complex. Unfortunately, the paintings have been exposed to the destructive action of water and temperature changes, which easily wear the images away. Because the Lascaux caves have many entrances, air movement has also damaged the images inside.

Although they are not out in the open air, where natural light would have destroyed them long ago, many of the images have deteriorated and are barely recognizable. To prevent further damage, the site was closed to tourists in 1963, 23 years after it was discovered.

- 84.) Which title best summarizes the main idea of the passage?
- Wild Animals in Art
 - Hidden Prehistoric Paintings
 - Exploring Caves Respectfully
 - Determining the Age of French Caves
- 85.) In 2nd sentence, the words pays heed to are closest in meaning to _____.
- discovers
 - watches
 - notices
 - buys
- 86.) Based on the passage, what is probably true about the south of France?
- It is home to rare animals.
 - It has a large number of caves.
 - It is known for horse-racing events.
 - It has attracted many famous artists.
87. According to the passage, which animals appear most often on the cave walls?
- Birds
 - Bison
 - Horses
 - Wild cats
- 88.) the word depict is closest in meaning to _____.
- show
 - hunt
 - count
 - draw
- 89.) Why was painting inside the Lascaux complex a difficult task?
- It was completely dark inside.
 - The caves were full of wild animals.
 - Painting materials were hard to find.
 - Many painting spaces were difficult to reach.
- 90.) In the 3rd paragraph, the word THEY refers to _____.
- walls
 - artists
 - animals
 - materials
- 91.) According to the passage, all of the following have caused damage to the paintings EXCEPT _____.
- temperature changes
 - air movement
 - water
 - light
- 92.) What does the passage say happened at the Lascaux caves in 1963?
- Visitors were prohibited from entering.
 - A new lighting system was installed.
 - Another part was discovered.
 - A new entrance was created.

Questions 93–95 are about the following passage.

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Lightning is an electrical discharge that occurs in a thunderstorm. Often you'll see it in the form of a bright "bolt" (or streak) coming from the sky. Lightning occurs when static electricity inside clouds builds up and causes an electrical charge. What causes the static electricity? Water! Specifically, water droplets collide with ice crystals after the temperature in the cloud falls below freezing. Sometimes these collisions are small, but other times they're quite large. Large collisions cause large electrical charges, and when they're large enough, look out! The hyper-charged cloud will emit a burst of lightning. This lightning looks quite impressive. For a good reason, too: A lightning bolt's temperature gets so hot that it's sometimes five times hotter than the sun's surface. Although the lightning bolt is hot, though, it's also short-lived. Because of that, when a person is unfortunate enough to be struck by lightning, their odds of surviving are pretty good. Statistics show that 90% of victims survive a lightning blast. Oh, and that old saying, "Lightning never strikes twice in the same spot"? It's a myth!

Many people report surviving lightning blasts three or more times. What's more, lightning strikes some skyscrapers multiple times. The other prominent feature of lightning storms is the thunder. This is caused by the super-heated air around a lightning bolt expands at the speed of sound. We hear thunder after seeing the lightning bolt because sound travels slower than the speed of light. In reality, though, both occur at the same moment.

93. What can we infer from this passage?
- An electrical discharge in the clouds causes lightning.
 - Lightning is not as hot as the temperature of the sun's surface.
 - The sound that lightning makes occurs when electricity strikes an object.
 - We hear lightning before we see it.
94. Being struck by lightning means:
- Instant death.
 - Less than a fifty percent chance of survival.
 - A ninety percent chance of surviving the strike.
 - An eighty percent chance of survival.
95. Lightning is caused by the following:
- Water droplets colliding with ice crystals creating static electricity.
 - Friction from the clouds rubbing together.
 - Water droplets colliding.
 - Warm and cold air mixing together.

Paragraph Organization

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- 96.)
- One effective way is to diversify his funds to different investments like real estate, stocks and money instruments like bonds and trust funds.
 - It is always best to expand money to different investment wheels.
 - A wise investor must not put all his eggs in one basket.
 - He should always consider the risks involved in investing his money.

- CBAD
- CBDA
- CDAB
- CDBA

- 97.)
- It is very vital to have social media presence however personal blogs serve as web domains.
 - Most people including celebrities and businessmen have blogs nowadays.
 - Therefore, building them will help anyone in promoting himself or his business.
 - Apparently blogs are like our offices only they are in the internet.

- BDAC
- BADC
- BACD
- BDCA

98.)

- A. The basic steps in building a website are easy to remember and registering a domain name is the usual priority.
 - B. Designing a layout will come after that.
 - C. Finally, adding more content and social media presence are required to keep your site active.
 - D. Then you need a hosting provider to host your site's content in the World Wide Web.
1. ABCD
 2. ADBC
 3. ACBD
 4. ADCB

99.)

- A. Speaking in English every day is also proven effective.
 - B. Another way is watching English movies and TV shows particularly with English subtitles.
 - C. Reading articles in books, newspapers, and magazines is just among the helpful ways.
 - D. There are many ways to improve and develop English proficiency.
1. DCBA
 2. DACB
 3. DABC
 4. DCAB

100.)

- A. Others don't realize yet what to pursue because they have many dreams.
 - B. Finding the right course in college is one of the most challenging decisions anyone can make.
 - C. Some people want to pursue their dreams ever since they were just little.
 - D. Indeed destiny is a matter of choice.
1. BDAC
 2. BCDA
 3. BADC
 4. BCAD

101.)

- A. Many innovations without proven results and follow up evaluation are educational wastages
 - B. One wonders in the final analysis if these changes have been deeply rooted on basic problems of the people they serve.
 - C. Some curriculum changes were mere fads without foreseeable achievements.
 - D. What we need are innovations that overcome the mis-education of the young.
- Choices:
1. BACD
 2. ACDB
 3. ABCD
 4. CBAD

102.)

- A. By trying, man learns to solve his problems through satisfying acts and eliminate actions which are annoying.
 - B. He used a hungry cat in a puzzled box where it tried ways to get out in order to get to the food.
 - C. Edward C. Thorndike's connectionism theory of learning establishes the trial and error way to learn.
 - D. He established the fact that like the cat, man too, learns by trial and error.
- Choices:
1. ACBD
 2. BACD
 3. ACDB
 4. ABCD

- 103.)
- A. A responsive educational system should be directed towards regional cooperation.
 - B. Commonality of educational objectives should be replaced by better ways of achieving goals that fit the regional needs.
 - C. It is necessary to revolutionize the contemporary methodologies in the teaching-learning processes.
 - D. The educational goals should seek for a better way of experimentation in the teaching strategies and technologies.
- Choices:
1. ABCD
 2. ABDC
 3. BCAD
 4. DABC

104.)

- A. Before, his religion was basically involved with rituals and ceremonies.
- B. The religion of the teacher helps him in reducing his fears and uncertainties.
- C. His religion responds to his needs for a means to allay fears about the uncertainty of events contrary to natural laws.
- D. Religion is important because it provides spiritual nourishment for his total being.

Choices:

- 1. ABCD
- 2. BACD
- 3. DBCA
- 4. CBAD

105.)

- A. While passport, airline tickets and valid IDs are required, proof of financial capacity may be required for visa application.
- B. Many Filipinos rejoiced hearing that good news.
- C. The Bureau of Immigration announced recently that proof of financial capacity is not a primary requirement at the airport.
- D. Positive points go to the bureau for this.

- 1. CBAD
- 2. CADB
- 3. CABD
- 4. CBDA

106.)

- A. This will be one of your tickets to land a job in the government.
- B. That is why many people apply to take the Career Service examination.
- C. If you passed the exam, you will get a certificate of eligibility.
- D. Career Service Eligibility is a major requirement to apply for a job position in the government.

- 1. DCBA
- 2. DBAC
- 3. DBCA
- 4. DCAB

107.)

- A. Your passport will arrive in 7 days if you choose the rush processing.
- B. Getting a passport is faster nowadays.
- C. Now, it only takes about 10 working days.
- D. Compared before, it would take about a month for the regular processing.

- 1. BCAD
- 2. BDCA
- 3. BADC
- 4. BACD

108.)

- A. Facebook has been the number one social network in the web and the world for quite long now.
- B. Mobile instant messaging apps are also dominating social presence in the internet.
- C. After many acquisitions, Facebook bought Instagram, one of the fastest growing photo sharing networks.
- D. Because of that, Facebook acquired WhatsApp, a leading instant chat platform like Kakaotalk.

- 1. ACBD
- 2. ABCD
- 3. ADCB
- 4. ADBC

109.)

- A. They will help you to purchase through zero-interest installment schemes.
- B. Thus, you must be wise and pay in full if you want to avoid never-ending debts.
- C. Credit cards are helpful if you know how and when to use them wisely.
- D. However, they will produce interests from interests if you didn't pay the whole amount at the due date.

- 1. CDBA
- 2. CABD
- 3. CDAB
- 4. CADB

110.)

- A. Although the government is willing to put resources to education ,alone, it cannot do the job.
- B. Education Act of 1980 provides an all encompassing activity with participation at all educational levels and sectors.
- C. The private schools have to be partners.
- D. The Act not only strengthens but equips the DepEd with its regulatory and developmental tasks as well
 - 1. BACD
 - 2. ABCD
 - 3. DBCA
 - 4. CADB

Clerical Operation

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111.) This is a type of document issued by a seller to a buyer relating to a sale transaction and indicating the products, quantities and prices sold to the buyer.

- a. Check voucher
- b. Purchase order
- c. Delivery receipt
- d. Sales invoice

112.) Which of the following is not a usual document used in a sales company?

- a. Form 137
- b. Delivery receipt
- c. Sales invoice
- d. Purchase order

113.) One of the responsibilities of a clerical job is answering and tending phone calls. Which is the best way to answer a phone call in a company?

- a. Say "Hello," and wait for the caller to speak.
- b. Run and get a pen and notebook then pick up the phone.
- c. Answer the phone politely and give your department or company name.
- d. Wait for fellow employees to answer the phone.

114.) An example of a hard copy document is:

- a. PDF file letter
- b. Company email message
- c. A business letter saved in USB
- d. Business letter in a paper

115.) What does a CC means in an email message?

- a. Copy sent
- b. Copy furnished
- c. Copy cat
- d. Client copy

116.) Which computer program should you go if you want to email a company?

- a. Word
- b. Excel
- c. Outlook
- d. Powerpoint

117.) This is a telephonic transmission of scanned documents of texts and images to a telephone number connected to a printer.

- A. Photocopying Machine
- B. Fax Machine
- C. Typewriter
- D. Inkjet Printer

118.) The chief financial officer is responsible for the financial matters and financial management of a corporation, she is also known as the _____.

- A. Auditor
- B. Treasurer
- C. Chief Executive Officer
- D. Manager

119.) Which department of a company is responsible for cash register operations and payment processing?

- A. Cashier
- B. Billing
- C. Accounting
- D. Budget

120.) Your boss asked you to send her a soft copy of your latest résumé. An example of a soft copy is:

- a. A print out copy usually in a paper
- b. Original copy written in a paper
- c. A copy saved in a computer and sent through email
- d. A copy from a Xerox machine

Philippine Constitutions, General Information and Events

Free reviewer for all... arranged by Leonalyn Mutia-Tayone

121.) What is the national language of the Philippines according to 1987 Phil Constitution article XIV section 6?

- a. Pilipino
- b. Tagalog
- c. Filipino
- d. English
- e. Both B & C

122.) What do you call the introductory part of the Constitution?

- a) Preface
- b) Amendments
- c) Preamble
- d) Bill of Rights

123.) What form of government does the Philippines adopt?

- a) Republican
- b) Democratic
- c) Neither a nor b
- d) Both a and b

124.) Who among the following may issue a warrant of arrest or a search warrant?

- a) A senator
- b) A judge
- c) A congressman
- d) The President

125.) A foreigner may acquire Filipino citizenship through

- a) Naturalization
- b) Extradition
- c) Rebirth
- d) Visa application

126.) What is regarded by the State as a "primary social economic force?"

- a. education
- b. trade
- c. labor
- d. commerce

127.) According to Article III, Section 15 of the Constitution, the writ of habeas corpus may be suspended in times of rebellion or what?

- a. martial law
- b. war
- c. terrorism
- d. invasion

128.) The Lower Chamber of the Congress of the Philippines is known by what name?

- a. Senate
- b. Congressional Lower Chamber
- c. National Assembly
- d. House of Representatives

129.) A Member of either house of Congress may be expelled by their fellow Members. For a Member to be expelled, how much of the total number of Members of a house must concur with the expulsion?

- a. two-thirds
- b. majority
- c. three-fourths
- d. nine-tenths

130.) If a President wishes to veto a bill, he/she must communicate it within a certain span of time, otherwise the bill will become a law. How long is this span of time?

- a. 3 weeks
- b. 48 days
- c. 60 days
- d. 30 days

131. At present, how many percent of the population of the Philippines are aliens?
 a. 30% c. 40% e. 70%
 b. 25% d. 50%
132. What project of the DENR that includes the protection of Industrial pollution of our Environment?
 a. Bantay Kalikasan d. Ecological Watch
 b. Bantay Ilog e. Solid Waste Management
 c. Bantay Dagat
133. What government agency thus the status of government employee in the free voluntary services belong?
 a. Secretary c. Municipal e. Barangay
 b. Regional d. National
134. Which is not a ground for Impeachment of the Pres., Vice-Pres., Ombudsman, and Senator?
 a. graft and corruption
 b. sexual harassment
 c. grave abuse of the authority
 d. against the Family if the child scolded by the parents
 e. Other crimes
135. What is the ground for impeachment of the Pres., Vice-Pres., Ombudsman, and Senator?
 a. sexual harassment
 b. heinous crime
 c. grave abuse of the authority
 d. graft and corruption
 e. culpable violation of the Constitution

Numerical Reasoning

Free reviewer for all... arranged by Leonalyn Mutia-Tayone

136. $(25)^0 - (-2)^4 + (-3^4) - (-8)^2 = ?$
 a. 2 b. 1 c. +161 d. +160 e. -160
137. $-2^2 - (-9)^2 - (-3^2) + 15^0 = ?$
 a. -75 b. +75 c. -85 d. +85 e. 0
138. 20% of 30% of X is 225 what is the value of X
 a. 13.5 b. 825 c. 375 d. 3750 e. 112.5
139. If the perimeter of a square is doubled, what happens to the area? _____
 a. the area is twice its original.
 b. the area is 4 times its original.
 c. the area is 6 times its original.
 d. the area is 8 times its original.
140. A one fourth percent of a number is 25. What is the number?
 a. 100 b. 1,000 c. 10,000 d. 100,000
141. $\sqrt{0.000225} = \underline{\hspace{1cm}}?$
 a. 15 b. 1.5 c. 0.15 d. 0.015 e. 0.0015
142. $\sqrt{0.00000081} = \underline{\hspace{1cm}}?$
 a. 9 b. 0.9 c. 0.09 d. 0.009 e. 0.0009
143. Which of the numbers below is 650 when rounded to the nearest ten and 600 when rounded to the nearest hundred?
 a. 645.01 b. 645.00 c. 651.00 d. 688.00 e. none of the above
144. Round off to the nearest hundreds place: 9,750
 a. 9,900 b. 9,700 c. 9,800 d. 9,760 e. none of the above
145. Round off to the nearest hundreds place: 9,650
 a. 9,860 b. 9,700 c. 9,760 d. 9,600 e. none of the above

146. Number Series: 125%, 100%, 80%, 64%, _____
 a. 60% b. 50% c. 42% d. 52.5% e. 51.2%
147. Number series: 2, 10, 60, 420, _____
 a. 1680 b. 840 c. 3414 d. 3360 e. 4500
148. The mean median and mode of 5 numbers are equal. The numbers are 7, 8, 10, 15. What is the 5th number?
 a. 7 b. 5 c. 10 d. 15 e. 8
- 149.) The mean median and mode of 7 numbers are equal. The numbers are 24, 22, 18, 10, 38, 32. What is the 7th number?
 a. 24 b. 22 c. 18 d. 10 e. 32
- 150.) Number Series: 1, 2, 2, 3, 4, 4, 8, 5, ____
 a. 6 b. 7 c. 16 d. 20 e. none of the above
- 151.) Number Series: 15, 7.5, 7.5, 15, 60, _____
 a. 480 b. 120 c. 240 d. 420 e. none of the above
- 152.) Round-off 2,833,333 to the nearest hundred thousands
 a. 2,833,300 b. 2,900,000 c. 2,833,000 d. 2,800,000 e. none of the above
- 153.) The product of the ages of three sisters is 567. If the two sisters are twins and are 2 years older than their younger sister. What is the age of their younger sister?
 a. 16 b. 10 c. 7 d. 8 e. none of the above
- 154.) Number Series: $[4 \div 4 \times 2]$, $[8 \div 4 \times 2]$, $[16 \div 4 \times 2]$, _____
 a. 2 b. 16 c. 32 d. 8 e. none of the above
- 155.) A solution is made of water and pure milk. If 70% of the solution is water, how many milliliters of pure milk are in 1 liter of this solution?
 a. 30 b. 70 c. 250 d. 300 e. none of the above
- 156.) $4010 \times 0.0001 =$ _____
 a. 0.00401 b. 0.0401 c. 0.401 d. 4.01 e. 40.1
- 157.) $(-7)^2 + (-7^2) =$ _____
 a. 0 b. +98 c. -98 d. 2401 e. None of the above
- 158.) When the first and the last digits of 2, 836 are interchanged, the new number is _____.
 a. 3996 more than 2,836
 b. 3996 less than 2, 836
 c. 1404 more than 2, 836
 d. 1404 less than 2, 836
 e. none of the above
- 159.) If twice the value of a certain number is increased by 8 the result is 40. What is the number?
 a. 8 b. 16 c. 24 d. 32 e. none of the above
- 160.) Genzy's dad is 5 times as old as Genzy and Genzy is twice as old as her sister Zymie. In two years, the sum of their ages will be 58. How old is Genzy now?
 a. 4 b. 6 c. 8 d. 12 e. none of the above
- 161.) In a group of 120 persons, there are 32 more women than men. How many women are there in the group?
 a. 44 b. 88 c. 76 d. 56 e. none of the above
- 162.) If the dimensions of a square change in such a manner that the area remains constant, what must happen to the other side if one side will be increased by $\frac{1}{4}$ of itself?
 a. it decreases by $\frac{1}{5}$
 b. it decreases by $\frac{1}{4}$
 c. it decreases by $\frac{1}{3}$
 d. it decreases by $\frac{1}{2}$
 e. none of the above

- 163.) . If $x - 3 = y$, then $(y - x)^3 =$ _____ ?
 a. 9 b. -27 c. 27 d. 81 e. cannot be determined
- 164.) 0.75 is to $\frac{3}{4}$ as 0.8 is to _____
 a. $\frac{2}{3}$ b. $\frac{4}{5}$ c. $\frac{5}{6}$ d. $\frac{6}{7}$ e. $\frac{3}{5}$
- 165.) 75% is to $\frac{1}{2}$ as 45% is to _____
 a. $\frac{3}{11}$ b. $\frac{3}{10}$ c. $\frac{3}{4}$ d. $\frac{2}{3}$ e. $\frac{3}{5}$
- 166.) 0.25 is to 0.125 as to 1.25 is to _____
 a. 0.625 b. 1.125 c. 1.625 d. 2.125 e. 6.250
- 167.) 2 is to 50 as 3.2 is to _____
 a. 60 b. 70 c. 80 d. 90 e. 1
- 168.) 14 is to 28 as 5 is to _____
 a. 7 b. 8 c. 9 d. 10 e. 15
- 169.) $4 \times 8 + 12/4 - 8/2 =$
 a. 32 b. 31 c. 35 d. 39 e. 30
- 170.) $483.43 + 123.334 + 31.5544 + 444.4 =$
 a. 182.7184 d. 1082.7184
 b. 1082.4468 e. 1082.7814
 c. 1988.5678
- 171.) Which is the greatest?
 a. $\frac{5}{12}$ b. $\frac{17}{33}$ c. $\frac{52}{80}$ d. $\frac{18}{42}$ e. $\frac{50}{70}$
- 172.) 44 is 80% of what number?
 a. 50 b. 60 c. 54 d. 55 e. 70
- 173.) $18 + 3 \times 3 + (54/3 + -68/-4) =$
 a. 62 b. 64 c. 26 d. 333 e. 330
- 174.) There are 3 numbers whose sum is 54; one number is double and triple times greater than the other numbers, what are those numbers?
 a. 10, 20, 34 b. 9, 15, 30 c. 8, 16, 30 d. 9, 18, 27 e. 7, 14, 21
- 175.) At 6:30 am, Jeany told Margarete that she found Blessy 15 and $\frac{1}{4}$ hours ago, at what time Jeany found Blessy?
 a. 9:25 pm b. 6:30pm c. 5:25pm d. 3:25pm e. 3:15pm
- 176.) . If 3 siomai cost P 15 pesos, how much if Kenneth buy 12 siomais.
 a. 55 b. 45 c. 65 d. 60 e. 80
- 177.) What number when increased by 74 percent of itself will equal to 80?
 a. 43 b. 42 c. 44 d. 54 e. 46
- 178.) What is the smallest positive number which, when you divided by 3, 4 or 5, will leave a remainder of 2?
 a. 42 b. 22 c. 62 d. 122 e. 102
- 179.) Which of the following numbers is represented by the prime factors $2 \times 3 \times 7$?
 a. 21 b. 42 c. 84 d. 237 e. none of these
- 180.) Which of the following numbers is divisible by 6?
 a. 232 b. 341 c. 546 d. 903 e. none of these
- 181.) In a room, there are 9 boys and 12 girls. The ratio of girls to boys is ____
 a. 9 : 24 b. 3 : 4 c. 4 : 3 d. 1 : 2
- 182.) A pet store has 8 cats, 12 dogs, and 3 rabbits. The ratio 8:23 compares
 a. dogs to cats
 b. cats to dogs
 c. rabbits to cats
 d. cats to all animals

- 183.) Ratio of 750m and 3km is _____
 a. 3 : 7 b. 3 : 5 c. 2 : 7 d. 1 : 4
184. The ratio of two sides of a parallelogram is 4 : 3. If its perimeter is 56 cm, find the lengths of its sides.
 a. 14cm, 13cm d. 16cm, 12cm
 b. 18cm, 15cm e. none of the above
 c. 30cm, 26cm
185. Four consecutive integers have a mean of 9.5. What is the largest of these integers?
 a. 38 b. 10 c. 11 d. 14 e. 19
186. A baseball pitcher won 80% of the games he pitched. If he pitched 35 ballgames, how many games did he win?
 a. 70 b. 28 c. 43 d. 35 e. none of the above
187. Jerry, an electrician, worked 9 months out of the year. What percent of the year did he work?
 a. 9% b. 60% c. 75% d. 90% e. none of the above
188. There are 40 students in a class. Sixteen of those students are boys. What percent of the class are girls?
 a. 60% b. 40% c. 43% d. 50% e. none of the above
189. Analie took a math test and got 48 correct and 12 incorrect answers. What was the percentage of correct answers?
 a. 25% b. 75% c. 20% d. 80% e. none of the above
190. 120 is what percent of 48?
 a. 2.5% b. 250% c. 25% d. 40%
191. 120% of what number is 72?
 a. 144 b. 600 c. 14,400 d. 60
192. 10% of 300 is what number?
 a. 3 b. 0.3 c. 30 d. 300
193. Two and one-half percent of what number is 88?
 a. 3520 b. 35,200 c. 2.2 d. 352
194. 95% of people in my street have a car. There are 160 people in my street. How many do not have a car?
 a. 8 b. 92 c. 152 d. 75 e. 80
195. If 300 students filled form for entrance test and 280 appeared in test out of which only 70% have passed test then number of students who failed test are
 a. 84 b. 54 c. 90 d. 104 e. 20
196. 40 % of 5 is equal to
 a. 2 b. 20 c. 0.2 d. 0.02 e. none of these
197. In a shipment of computers, $\frac{2}{25}$ of the computers are defective. What is the ratio of defective to non defective computers?
 a. $\frac{2}{25}$ b. $\frac{2}{23}$ c. $\frac{25}{2}$ d. $\frac{23}{2}$ e. none of these
198. Which of the following is divisible (with no remainder) by 6?
 a. 856247 b. 625874 c. 147414 d. 235465 e. 142546
199. A solution is made of water and pure orange. If 80% of the solution is water, how many liters of pure orange are in 25 liters of this solution?
 a. 10 b. 15 c. 25 d. 5 e. 20
200. What is the average of $\frac{7}{8}$ and $\frac{3}{4}$?
 a. $\frac{13}{8}$ b. $\frac{5}{6}$ c. $\frac{5}{3}$ d. $\frac{5}{12}$ e. $\frac{13}{16}$
201. If $-\frac{6}{a-3} = \frac{3}{a+2}$, then $a = ?$
 a. $-\frac{1}{3}$ b. $\frac{1}{3}$ c. $\frac{1}{2}$ d. $-\frac{1}{2}$ e. 3

202. A company makes a profit equal to 25% of its sales. The profit is shared equally among the 4 owners of the company. If the company generates sales of \$2,000,000, how much money does each one of the owners get?
 a. 125,000 b. 312,500 c. 500,000 d. 1,250,000 e. 375,000
203. If $a = 3$, then $2 / (1/7 + 1/a) = ?$
 a. $21/5$ b. $21/10$ c. 20 d. 10 e. 5
204. If $(a + b)^2 = 25$ and $(a - b)^2 = 45$, then $a^2 + b^2 = ?$
 a. 35 b. 70 c. 625 d. 2025 e. 4900
205. $10 - 2 + 4 \times 2 - (10 \div 5 \times 2) = ?$
 a. 12 b. 15 c. -1 d. 20 e. 23
206. The population of a certain town is 5,000. If it increases 5% each year, what will be the approximate population at the end of 10 years?
 a. 7500 b. 12500 c. 14250 d. 8144 e. 5250
207. Gary decided to cycle to his friend's house at a speed of 6kph and the journey took 30 minutes. How far did Gary cycle?
 a. 18 km b. 3 km c. 6 km d. 12 km e. none of these
208. A boat takes $4/5$ as much time to travel downstream as to its return. If the rate of the river's current is 6 kph, what is the rate of the boat in still water?
 a. 30 kph b. 54 kph c. 84 kph d. 60 kph e. none of these
209. If a car travels at 60 kph, what is the distance it travels in 30 minutes?
 a. 2 km b. 30 km c. 120 km d. 1,800 km e. none of these
210. A car travels 120 miles at a speed of 40 miles per hour and makes a return trip at a speed of 60 miles per hour. What is its average speed, in miles per hour, of the police car?
 a. 42 b. 44 c. 46 d. 48 e. none of these

===== END =====

READ these INSPIRATIONAL QUOTES...

I hope these words will somehow help motivate you to study, review, pass all exams and be successful in life... and become an inspiration to others...

"Success is no accident. It is hard work, perseverance, learning, studying, sacrifice and most of all, love of what you are doing or learning to do."

"If you have a dream, you can spend a lifetime studying, planning, and getting ready for it. What you should be doing is getting started."

"Success is not final, failure is not fatal; it is the courage to continue that counts."

"Allow yourself to be a beginner. No one starts off being excellent."

"Be stronger than your excuses."

"If you really want to do something, you'll find a way. If you don't, you'll find an excuse."

"The earlier you start working on something, the earlier you will see results."

"If we wait until we're ready, we'll be waiting for the rest of our lives."

"You don't have to be great to start. But you have to start to be great."

"The distance between dreams and reality is called action."

"Never let small minds convince you that your dreams are too big."

"You were born to win. But to be a winner, you must plan to win, prepare to win and expect to win."

"Success isn't always about greatness. It's about consistency. Consistent hard work leads to success. Greatness will come." "Impossible is not a fact. It is an opinion."

"More people would learn from their mistakes if they weren't so busy denying them."

"FEAR – Forget Everything And Run... or... Face Everything And Rise. It's your choice."

"Behind every successful person, there are a lot of unsuccessful years."

"When you talk, you are only repeating what you already know. But if you listen, you may learn something new."

"Push yourself because no one else is going to do it for you."

"The beautiful thing about learning is that no one can take it away from you."

"You are never too old to set another goal or to dream a new dream."

"Once you have learned to ask questions – relevant and appropriate and substantial questions – you have learned how to learn, and no one can keep you from learning whatever you want or need to know."

"Education is the passport to the future, for tomorrow belongs to those who prepare for it today."

"When one door closes, another opens. But we often look so long and so regretfully upon the closed-door that we do not see the one which has opened for us."

"Our greatest weakness lies in giving up. The most certain way to succeed is always to try just one more time."

"There are no secrets to success. It is the result of PREPARATION, hard work learning from failure."

"Success is the sum of small efforts, repeated day in and day out."

"Trust in the LORD with all your heart and lean not on your own understanding." Pro 3:5

"Take delight in the LORD, and he will give you your heart's desires." Psalm 37:4

"Don't be afraid, for I am with you. Don't be discouraged, for I am your God. I will strengthen you and help you. I will hold you up with my victorious right hand." Isaiah 41:10

"Seek first the kingdom of God and His righteousness, and all these things will be added unto you." Mt 6:33

"When educating the minds of your youth, we must not forget to educate their hearts." ❤️

Learning is a lifelong process. It does not stop after you graduate or landed a job of your dream. In fact, the more you learn new things, the more you realized how little you already know. Education can change lives. In fact, if you are educated, you can't only make your life better, but you can also improve and touch the lives of other people.

I wish you all good luck and success... God bless to all of you...

Sincerely helping you without asking in return, ❤️ Leonalyn Mutia-Tayone ❤️

CORRECT ANSWERS:

Graphs / Charts

1. c.) 2008

We're looking for a year in which over 2/3 of the students failed. In fact we're looking for a year in which less than a third of the students passed.

There are two years that match the criteria: 2008 and 2010, but only 2008 appear as an optional answer.

----- free/LMTayone

2. c.) 30

This question looks for a percentage rather than an absolute number. Therefore, the number we choose for carrying the calculation is arbitrary! We could also just use x or any other number. For example:

Call the number of students who took the test X. The chart indicates that 40% of X passed the test, which is $0.4 \cdot X$.

If a quarter of $0.4 \cdot X$ passed it in the first trial, then three quarters passed it in the second trial:

$$0.75 \cdot 0.4 \cdot X = 0.3 \cdot X. \quad 0.3 \text{ is equal to } 30\%$$

Tip: Use the number 100! According to the chart, out of the 100 students, 40% passed it in

one of the trials, which is equal to 40 students.

Out of the 40 students who passed the exam, a quarter (25%), passed it on the first trial.

That is: $40 \cdot 0.25 = 10$

Therefore, 30 students (40-10) passed the second trial. These 30 make 30% of the 100 who took the exam.

3. b.) 9,500,000

Chinese Insurance Stocks comprise 3.5% of all Insurance securities, which leaves 26.5% of Chinese bonds.

The total number of Insurance securities is:
 $33,000,000 + 3,000,000 = 36,000,000$

Now we only need to calculate 26.5% of 36,000,000:
 $(36,000,000 \cdot 0.265) = 9,540,000$, which is approximately 9,500,000

----- free/LMTayone
4. c.) 1997

Return on sales in 1995 = $20/180$ or 0.111

Return on sales in 1996 = $30/260$ or 0.115

Return on sales in 1997 = $60/345$ or 0.173

Return on sales in 1998 = $55/420$ or 0.130

So, the highest return comes in 1997.

----- free/LMTayone

5. a.) once

Return on sales in 1992 = $12/130$ or 0.09

Return on sales in 1993 = $18/135$ or 0.13

Return on sales in 1994 = $19/140$ or 0.13

Return on sales in 1995 = $20/180$ or 0.111

Return on sales in 1996 = $30/260$ or 0.115

Return on sales in 1997 = $60/345$ or 0.173

Return on sales in 1998 = $55/420$ or 0.130

Return on sales exceeds 15% only in 1997.

----- free/LMTayone

6. b.) twice

Profit growth exceeds 50% in 1996 i.e. from 18 to 30 and in

1997 from 30 to 60. This is not happening in any other year.

Therefore answer is twice.

----- free/LMTayone

7. d.) 1067 : 582

FEI for Malaysia in 1997 is 10.67 and FEI for Thailand in 1998 is 5.82.

So, Required ratio is = $10.67 : 5.82 = 1067 : 582$.

----- free/LMTayone

8. d.) S.Korea

In this question, you are only asked to identify the country with the minimum change and not the percent change. You can calculate this by using the difference between the values given on the top. So, as per this, the answer is. S.Korea as it has the minimum difference of 0.34.

Here, you need to apply the concept of subtraction to find the answer.

9. b.) 25 : 72

Taking the data from the chart for Thailand you can see that in the year 1997, the FEI is 5.09% of GDP and 25% of it is allocated to the Education sector and in year 1998, 5.82% of the GDP is FEI and 60% of it goes to the Education sector. Now if you try to find it by the conventional method, it will take a lot of time and energy. Now as you have to find the ratio of amount on Education sector in the 1997 and 1998, you can do rough calculations by taking 5.09% as 5% for 1997 and 5.82% i.e. 6% approx. for 1998. After that, calculate ratio as $5 \times 25 \times \text{GDP} : 6 \times 60 \times \text{GDP} = 5 \times 25 : 6 \times 60 = 25 : 72$ approximately. Hence answer is option b.

10. b.) 3.26

500 Japanese Yen before the reduction were worth = $500 \times 0.007 = 3.5$ Euro (the 0.007 figure is taken from the data). After a reduction of 7%, they are now worth $3.5 \times 0.93 = 3.26$ Euro.

Vocabulary

11. c.) magkaibigan
12. a.) cure-all
13. c.) disaster
14. c.) tunog ng alon
15. d.) agimat
16. d.) harurot
17. a.) daungan
18. d.) patience
19. a.) loyalty
20. c.) dirty
21. c.) forbid
22. b.) lusaw
23. b.) tsismosa
24. b.) trangka
25. a.) mahabang hapag
26. b.) punit-punit
27. d.) deposito
28. a.) daungan
29. d.) quarrelsome
30. b.) walk

Idiomatic Expression and Correct Spelling

31. a. If something costs a pretty penny, it is very expensive.
32. b. If someone comes out of their shell, they stop being shy and withdrawn and become more friendly and sociable.
33. c. If a person shows derring-do, they show great courage.
34. a. If you get into hot water, you get into trouble.
35. b. If you keep abreast of things, you stay informed about developments.
36. c. make a bold decision
37. d. never does what he wants
38. b. the one with a bad reputation
39. c. it's raining very heavily
40. a. to make a fool of you
41. a. A pair is a set of two things; a pear is a fruit; and to pare is to peel.
42. a. A principal is the head of a school; a principle is a belief or rule of conduct.

43. d. A scent is a smell; sent is the past tense of send; and cent is a coin.

44. c. Bare means devoid of; a bear is an animal.

45. a. It's is the contraction for it is; its is a possessive pronoun.

46. b. Your is a possessive pronoun; you're is a contraction for you are.

47. a. The air is the atmosphere enveloping the earth; an heir is a person who inherits the estate of another.

48. c. The stairs are a flight of steps; stares are very intent gazes.

49. a. A plane is a winged vehicle; plain means open or clear.

50. a. If someone is vain, he or she is excessively prideful; a weather vane is a moveable device that rotates to show the direction of the wind; a vein is a narrow channel, like a blood vein or the vein in a leaf.

Word Analogy and Logic Test

51. a.) illusion

52. a.) wealth : embezzler

53. b.) skeptic : disbelief

Degree of intensity.

Philanthropist is a generous person while munificence is extremely generous.

as skeptic is inclined to question or doubt accepted opinions while disbelief is refusal to accept that something is true.

54. b.) mundane : legitimate

Something vague is nebulous. Something mundane is commonplace.

55. e.) diaphanous is the opposite of opaque. Distraught is the opposite of calm.

56. e.) A frame surrounds a picture; a fence surrounds a backyard.

57. b.) One searches in order to find; one explores in order to discover.

58. c.) A pharmacy sells drugs; a bakery sells bread.

59. a.) Layer and tier are synonyms; section and segment are synonyms.

60. a.) Metropolitan describes urban areas; bucolic describes rural areas.

61. d.) A teacher works in a school; a judge works in a courthouse.

62. c.) A car is powered by gasoline; a bicycle is powered by feet.

63. e.) To jog is to run slowly; to drizzle is to rain slowly.

64. c.) A radio uses one's ears; a television uses one's eyes.

65. b.) To tailor a suit is to alter it; to edit a manuscript is to alter it

66. c.) uncertain

67. b.) Subscribing to Cable TV is a needless expenditure

68. d.) Only one worker in the factory has exactly five children.

69. d.) TV promotes a feeling of helpless vulnerability in viewers.

70. b.) The demand for more universities is being stepped up.

71. c.) uncertain..... The first two statements give information about Zoe's Tulips and pansies. Information about any other kinds of flowers cannot be determined.

72. c.) uncertain... There is not enough information to verify the third statement.

Idiomatic Expression and Correct Spelling..... cont

73. b.) false.... Rulers are the most expensive item.
 74. b.) false...The first two statements indicate there are more yellow jelly beans than red and green.
 75. a.) true... To the extent that a toothpick is useful, it has value.

Reading Comprehension

76. a.) toxic insecticides such as DDT have not been banned throughout the world.
 77. d.) needy countries need researchers to help them reach the status of the western world
 78. d.) This answer is implied by the whole paragraph. The author stresses the need to read critically by performing operations on the text in a slow and specific manner. Choice a is incorrect because the author never says that reading is dull. Choices b, c, and e are not supported by the paragraph.
 79. c.) people have varied ways of looking at different things
 80. d.) natututuhan nang tangkilikin ng mga Pilipino ang kanilang mga sariling awitin.
 81. a.) the older we get, the more we forget what we have learned
 82. b.) the unpredictability of money is an obstacle to a nation's prosperity
 83. c.) dumarami ang mga walang hanapbuhay at tumataas ang halaga ng mga biling dahil sa krisis
 84. b.) Hidden Prehistoric Paintings
 85. c.) notices
 86. b.) It has a large number of caves.
 87. c.) Horses
 88. a.) show
 89. d.) Many painting spaces were difficult to reach.
 90. b.) artists
 91. d.) light
 92. a.) Visitors were prohibited from entering.
 93. a.) We can infer that, an electrical discharge in the clouds causes lightning.

The passage tells us that, "Lightning occurs when static electricity inside clouds builds up and causes an electrical charge,"

94. c.) Being struck by lightning means, a ninety percent chance of surviving the strike.

From the passage, "statistics show that 90% of victims survive a lightning blast."

95. a.) We know that lightning is static electricity from the third sentence in the passage. We also know that static electricity is caused by water droplets colliding with ice crystals. Therefore, Lightning is caused by water droplets colliding with ice crystals.

Paragraph Organization

96. (3) CDAB
 97. (2) BADC
 98. (2) ADBC
 99. (1) DCBA
 100. (4) BCAD
 101. (2) ACDB
 102. (1) ACBD
 103. (1) ABCD
 104. (2) BACD
 105. (4) CBDA
 106. (3) DBCA
 107. (2) BDCA
 108. (1) ACBD
 109. (4) CADB
 110. (1) BACD

Clerical Operation

111. D Sales invoice
 112. A Form 137
 113. C Answer the phone politely and give your department or company name.
 114. D Business letter in a paper
 115. B Copy furnished
 116. c. Outlook
 117. B. Fax Machine
 118. B. Treasurer
 119. A. Cashier
 120. C. A copy saved in a computer and sent through email

Philippine Constitution, General Information and Events

(Leonalyn)

121. c.) Filipino
 122. c.) Preamble
 123. d.) Both a and b
 124. b.) A judge
 125. a.) Naturalization
 126. C. Under State Policies, the State "affirms labor as a primary social economic force." (Article II, Section 18)
 127.) D. The writ of habeas corpus prevents persons from being arrested without warrants of arrest. The Constitution specifies the conditions wherein the writ shall be suspended to prevent warrantless arrests, which were prevalent during the Marcos dictatorship (which was overthrown by the 1st People Power Revolution). The Constitution clearly states that "the writ of habeas corpus shall not be suspended except in cases of invasion or rebellion."

128. D. Article VI, Section 1 states, "The legislative power shall be vested in the Congress of the Philippines which shall consist of a Senate and a House of Representatives...". The Upper House of Congress is the Senate while the Lower House is the House of Representatives. Representatives are elected by the constituents in their respective legislative districts, while Senators are elected at the national level.

- 129.) A. Article VI, Section 16.3 states, "Each House may determine the rules of its proceedings, punish its Members for disorderly behavior, and, with the concurrence of two-thirds of all its Members, suspend or expel a Member." So, if the Senate wants to expel a member, 16 of the 24 Senators must agree to expel that Senator.

- 130.) D. According to Article VI, Section 27.1, "The President shall communicate his veto of any bill to the House where it originated within thirty days after the date of receipt thereof, otherwise, it shall become a law as if he had signed it." A vetoed bill may still become a law if two-thirds of the members of the house where it originated votes to make it a law.

131. a. 30%
 132. e. Solid Waste Management
 133. e. Barangay
 134. d. against the Family if the child scolded by the parents
 135. e. culpable violation of the Constitution

Numerical Reasoning

(detailed solutions solved by: Leonalyn Mutia-Tayone)

This is **NOT for sale...** shared **100% FREE**

136. e.) -160

$$(25)^0 - (-2)^4 + (-3^4) - (-8)^2 = ?$$

$$1 - (+16) + (-81) - (+64) =$$

$$1 - 16 - 81 - 64 = -160 \checkmark$$

*Kung hindi -160 ang sagot nyo, panuorin nyo ng buo ito:

<https://www.youtube.com/watch?v=ERakk0YVwT8&t=5s>

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137. a.) -75

$$-2^2 - (-9)^2 - (-3^2) + 15^0 = ?$$

$$-4 - (+81) - (-9) + 1 =$$

$$-4 - 81 + 9 + 1 =$$

$$-85 + 9 + 1 =$$

$$-76 + 1 = -75 \checkmark$$

*recheck with your own calculator

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138. d.) 3750

note:

of ---> x

is ---> =

20% of 30% of X is 225

$$20\% \times 30\% \times X = 225$$

$$0.2 \times 0.3 \times X = 225$$

$$0.06X = 225$$

$$X = 225/0.06$$

$$X = 3750 \checkmark$$

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139. b. the area is 4 times its original.

Let n be the sides of the square

perimeter $n+n+n+n =$ perimeter

$n \times n =$ area

$$(n^2)/(n+n+n+n) = X/(n+n+n+n)^2$$

$$(n^2)(4n)^2 = X (4n)$$

$$[(n^2)(4n)^2]/(4n) = X$$

$$(n^2)(4n) = X$$

therefore, if the perimeter of a square is doubled, "the area is 4 times its original."

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140. c.) 10,000

One fourth percent of a number is 25.

Q: What is a number?

NOTE: of ---> "x"

is ---> "="

Let n be our number

Solution:

One fourth percent ---> $1/4 \%$

of a number ---> $x \times n$

is 25 ---> $= 25$

Ipagsama para mabuo ang equation:

$$1/4 \% \times n = 25$$

Convert $1/4\%$ to plain fraction

$$1/4 \% \div 100\% =$$

$$1/4 \times 1/100 = 1/400$$

$$\text{or } 1/400 = 0.0025$$

Convert $1/4 \%$ to decimal

$$1/4 \% = 0.25\% \text{ PERCENT}$$

$$0.25\% \div 100\% = 0.0025$$

Cont..... for 140....


Now, let's proceed:

$$1/4 \% \times n = 25$$

$$0.0025 n = 25$$

$$n = 25/0.0025$$

$$n = 10,000$$

How to divide without using calculator: 

$25 \div 0.0025 =$ nasa 4th place ang decimal "0.0025".

Kalimutan muna ang decimal at gawing 25 lang.

$$25 \div 25 = 1$$

Division sya kaya yung decimal mong nasa pang-apat, magcount ka rin ng apat going to the RIGHT--->

at maglagay ng apat ng zeros....

$$1 + 0000 \text{ ----> } 10,000 \text{ @answer}$$

Checking:

$$1/4 \% \times n = 25$$

$$1/4 \% \times 10,000 = 25$$

$$0.0025 \times 10,000 = 25$$

$$25 = 25$$

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141. d. 0.015

$$\sqrt{(225/1000000)} = 15/1000 = 0.015$$

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142. e. 0.0009

$$\sqrt{(81/100000000)} = 9/10000 = 0.0009$$

For item #141 and 142, watch this:

<https://www.youtube.com/watch?v=c5V4A9K9U2E&t=74s>

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143. a. 645.01 \checkmark

b. 645.00

c. 651.00

d. 688.00

e. none of the above

*Let's eliminate by looking at the choices kng alin ang pwedeng e round-off to 600. Only choices A and B. Then, identify according to the rule of 5 kng alin dyan ang pwedeng ma round-off to 650. Watch the link for details

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144. c. 9,800

Round off to the nearest hundreds place: 9,750

*(rule of 5) ODD number before 5 kaya add up

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145. d. 9,600

Round off to the nearest hundreds place: 9,650

*(rule of 5) EVEN number before 5 kaya keep the number

For item #143 to 145

Watch this:

https://youtu.be/wrqAhHRiV_w

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146. e. 51.2%

$$125 \div 5 = 25 \times 4 = 100\%$$

$$100 \div 5 = 20 \times 4 = 80\%$$

$$80 \div 5 = 16 \times 4 = 64\%$$

$$64 \div 5 = 12.8 \times 4 = 51.2\% \checkmark$$

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147. d.) 3360

2, 10, 60, 420, ___?

$$2 \times 5 = 10$$

$$10 \times 6 = 60$$

$$60 \times 7 = 420$$

$$420 \times 8 = 3360 \checkmark$$

148. c.) 10
 $(7+8+10+15) \div 4 = n$
 $40 \div 4 = n$
 $10 = n$ ✓

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149. a.) 24
 $(24+22+18+10+38+32) \div 6 = n$
 $144 \div 6 = n$
 $24 = n$ ✓

For items# 146 to 149, watch this:
<https://youtu.be/AgNyP0QGYQE>

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150. c.) 16
 1, 2, 2, 3, 4, 4, 8, 5, ___
 ***alternate 1,2,4,8
 $1 \times 2 = 2$
 $2 \times 2 = 4$
 $4 \times 2 = 8$
 $8 \times 2 = 16$ ✓

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151. a.) 480
 15, 7.5, 7.5, 15, 60, ____
 $15 \times 0.5 = 7.5$
 $7.5 \times 1 = 7.5$
 $7.5 \times 2 = 15$
 $15 \times 4 = 60$
 $60 \times 8 = 480$ ✓

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152.) d. 2,800,000 ✓
 Watch this:
https://youtu.be/wrqAhHRiV_w

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153. c.) 7
 The product of the ages of three sisters is 567. If the two sisters are twins and are 2 years older than their younger sister. What is the age of their younger sister?
 ***e factor out natin para mas madali
 $567 \div 3 = 189$
 $189 \div 3 = 63$
 $63 \div 3 = 21$
 $21 \div 3 = 7$
 Group those four 3s into two
 (3×3) and (3×3)
 $(3 \times 3) = 9$
 9 is 2 more than 7
 Therefore, the age of their younger sister is
 7 yrs old ✓

For items # 150 to 153,
 Watch this:
<https://www.youtube.com/watch?v=pIDl2cY6B9M&t=11s>

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154. b.) 16
 A6. $[4 \div 4 \times 2]$, $[8 \div 4 \times 2]$, $[16 \div 4 \times 2]$, ____
 $4 \times 2 = 8$
 $8 \times 2 = 16$
 $16 \times 2 = 32$

Therefore, the next series is
 $[32 \div 4 \times 2] =$
 $8 \times 2 = 16$ ✓ PEMDAS RULE
 ***more details sa video

155. d.) 300

A solution is made of water and pure milk. If 70% of the solution is water, how many milliliters of pure milk are in 1 liter of this solution?

1 liter = 1000ml
 Yung kabuohang mixture ay 100%
 70% ay water...
 So, 30% ang pure milk
 30% of 1000 is pure milk

Note:

of ---> x
 is ---> =

30% of 1000 is pure milk
 $30\% \times 1000 = \text{pure milk}$
 $0.3 \times 1000 = 300\text{ml}$ ✓ pure milk

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156.) c. 0.401
 $4010 \times 0.0001 = \underline{\hspace{2cm}}$

***kopyahin lang at e move ang decimal place to the left ng apat na beses.

c. 0.401 ✓

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157.) a. 0
 ***review the RULE of exponents on negative
 $(-7)^2 + (-7^2) =$
 $49 + (-49) = \text{zero}$ ✓

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158. a.) 3996 more than 2,836

When the first and the last digits of 2, 836 are interchanged, the new number is ____.

$2836 \rightarrow 6832$ (new number)
 $6832 - 2836 = 3996$

Therefore, the new number is
 ✓ 3996 more than 2,836

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159. b.) 16

If twice the value of a certain number is increased by 8 the result is 40. What is the number?

***Sundan lang ang given mismo

twice the value of a certain number
 $\rightarrow 2n$

increased by 8
 $\rightarrow +8$

the result is 40
 $\rightarrow = 40$

Ipagsama mo na ngayon at yan na ang equation natin
 $2n + 8 = 40$
 $2n = 40 - 8$
 $2n = 32$
 $n = 32/2 = 16$ ✓

160.) Genzy's dad is 5 times as old as Genzy and Genzy is twice as old as her sister Zymie. In two years, the sum of their ages will be 58. How old is Genzy now?

.....Now..... +2yrs
 Dad = 5(2z).... 5(2z) + 2
 Genzy = 2z..... 2z + 2
 Zymie = z..... z + 2

$$[5(2z)+2]+[2z+2]+[z+2] = 58$$

$$[10z)+2]+[2z+2]+[z+2] = 58$$

$$13z + 6 = 58$$

$$13z = 58 - 6$$

$$13z = 52$$

$$z = 52/13 = 4$$

Genzy $2z = 2(4) = 8$ ✓

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161. c.) 76

In a group of 120 persons, there are 32 more women than men. How many women are there in the group?

Solutions#1:	Solution#2:
$120 - 32 = 88$	$2m + 32 = 120$
$88 \div 2 = 44$ men	$2m = 120 - 32$
$44 + 32 = 76$ women ✓	$m = 88/2$
	$m = 44$ men
	$44 + 32 = 76$ women ✓

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162. a.) it decreases by 1/5

If the dimensions of a square change in such a manner that the area remains constant, what must happen to the other side if one side will be increased by 1/4 of itself?

$$n \times n = n^2$$

$$(1+1/4)n \times ?n = n^2$$

$$1.25n \times ?n = n^2$$

$$?n = n^2/1.25n$$

$$?n = 1/1.25 n$$

$$?n = 100/125 n$$

$$?n = 4/5 n$$

$$1 - 4/5 =$$

$$5/5 - 4/5 = 1/5$$

From 1n, now it is 4/5 n.

Therefore, it decreases by 1/5 ✓

----- FREE for all by LMTayone

163. b.) -27

If $x - 3 = y$, then $(y - x)^3 = \underline{\hspace{2cm}} ?$
 ***rearrange or transpose x to isolate the value
 $-3 = y - x$
 Therefore $(y - x)$ is equal to -3
 $(y - x)^3 = (-3)^3 = -27$ ✓

For items # 154 to 163,
 Watch this for detailed solutions:
<https://www.youtube.com/watch?v=pIDi2cY6B9M&t=11s>

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164.) b. 4/5

Soln#1
 0.75 is no doubt equals to 3/4
 So, 0.8 is 8/10 or 4/5

Soln#2
 $0.75 : 3/4 = 0.8 : n$
 $3/4 \times 0.8 = 0.75 n$
 $0.6/0.75 = 0.8$ or 4/5

165.) b. 3/10

Soln#1
 75% is to 1/2 as 45% is to
 $0.75 : 0.5 = 0.45 : n$
 $(0.75 \div 3) \times 2 = 0.5$
 $(0.45 \div 3) \times 2 = 0.3$ or 3/10

Soln#2
 $75% : 1/2 = 45% : n$
 $1/2 \times 0.45 = 0.75 n$
 $0.225/0.75 = 0.3$ or 3/10

----- FREE for all by LMTayone

166.) a. 0.625

Soln#1
 0.25 is to 0.125 as to 1.25 is to
 $0.25 : 0.125 = 1.25 : n$
 $0.25 \times 5 = 1.25$
 $0.125 \times 5 = 0.625$

Soln#2
 $0.25 : 0.125 = 1.25 : n$
 $(0.125 \times 1.25) / 0.25 = 0.625$

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167.) c. 80

Soln#1	Soln#2
$2 : 50 = 3.2 : n$	$2 \times 25 = 50$
$(50 \times 3.2) / 2 = 80$	$3.2 \times 25 = 80$

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168.) d.10

Soln#1	Soln#2
$14 : 28 = 5 : n$	$14 : 28 = 5 : n$
$14 \times 2 = 28$	$28 \times 5 / 14 = 10$
$5 \times 2 = 10$	

For items # 164 to 168, Watch this video:
<https://www.youtube.com/watch?v=HHv-1qBR1PM>

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169.) b. 31

$$4 \times 8 + 12/4 - 8/2 =$$

$$\begin{array}{ccc} \vee & \vee & \vee \\ 32 & + & 3 - 4 \\ & \vee & \\ & 35 - 4 & = 31 \end{array}$$

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170.) d. 1082.7184

Write down all the given numbers vertically and align all decimals, then you can add them. To shorten ur time, check the 4th digit from the decimal point or the ten thousandths place, it is 4. Then the 3rd digit from the decimal point or the thousandths place, you have 4+4 and it is 8. Eliminate choice A coz the answer must be 1000+. You only have choice d that has 84 on the last two digits after decimal.

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171. e. 50/70

Eliminate all below halves, then compute the remaining by dividing numerators by denominators.

For 169 to 171, Watch this:
<https://www.youtube.com/watch?v=6pfYxQOYMjl>

172. d. 55

44 is 80% of what number?

$$44 = 80\% \times n$$

$$44 = 0.8 \times n$$

$$44/0.8 = n$$

$$440/8 = n$$

$$55 = n$$

NOTE:

is \rightarrow "="

of \rightarrow "x"

Let n be the number

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173. a. 62

$$18 + 3 \times 3 + (54/3 + -68/-4) =$$

$$18 + 3 \times 3 + (18 + 17) =$$

$$18 + 3 \times 3 + (35) =$$

√

$$18 + 9 + 35 = 62$$

Apply RULE of operation (PEMDAS or GEMDAS)

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174. d. 9, 18, 27

$$n + 2n + 3n = 54$$

$$6n = 54$$

$$n = 54/6$$

$$n = 9$$

$$2n = 2(9) = 18$$

$$3n = 2(9) = 27$$

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175. e. 3:15pm

$$6:30\text{am} - 12\text{hrs} = 6:30\text{pm}$$

$$6:30\text{pm} - (15.15\text{hrs} - 12\text{hrs}) = 3:15\text{pm}$$

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176.) d. 60

$$12/3 = 4 \times 15 = 60$$

Every 3 siomai cost 15

There are four 3's in 12, so 4×15 , answer is 60.

You can also divide 15 by 3 equals 5 each and then multiple

$$5 \times 12 = 60$$

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177. e. 46

$$100\%n + 74\%n = 80$$

$$174\%n = 80$$

$$1.74n = 80$$

$$n = 80/1.74$$

$$n = 8000/174$$

$$n = 45.977 \text{ round-off } 46$$

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178. c. 62

LCM of 3,4,5, is 60, add 2 and the answer is 62

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179. b. 42

Just multiply them $2 \times 3 \times 7 = 42$

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180. c. 546

Divisible by 6 are both divisible by 2 and 3. Focus on choices with even numbers and then check which one is divisible by 3.

Watch this for detailed explanation:

For item 178 to 180

<https://www.youtube.com/watch?v=6pfYxQOYMjl>

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181.) c. 4 : 3

In a room, there are 9 boys and 12 girls.

The ratio of girls to boys is ____

Girls : Boys

$$12 : 9 = 4 : 3 \checkmark$$

GCF of 12 and 9 is 3. So, divide both by 3

$$12 \div 3 = 4$$

$$9 \div 3 = 3$$

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182.) d. cats to all animals

A pet store has 8 cats, 12 dogs, and 3 rabbits. The ratio 8:23 compares

$$8 \text{ cats} : [(8+12+3) = 23]$$

cats to all animals \checkmark

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183.) d. 1 : 4

Ratio of 750m and 3km is

convert km to m para same na sila

$$750\text{m} : 3\text{km}$$

$$750\text{m} : 3000\text{m}$$

$$75 : 300 \rightarrow \text{divide both by GCF } 75$$

$$1 : 4 \checkmark$$

For items #181 to 183

Watch this video for detailed solutions

<https://www.youtube.com/watch?v=o8ET2CQe0fE&t=125s>

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184. d. 16cm, 12cm

Soln#1:

Let the lengths of two sides of the parallelogram be 4n cm and 3n cm respectively.

Then, its perimeter

$$= 2(4n + 3n) \text{ cm}$$

$$= 8n + 6n$$

$$= 14n \text{ cm}$$

Therefore,

$$14n = 56 \Leftrightarrow n = 56/14 = 4.$$

one side

$$= (4 \times 4) \text{ cm} = 16 \text{ cm} \checkmark$$

$$\text{other side} = (3 \times 4) \text{ cm}$$

$$= 12 \text{ cm} \checkmark$$

Soln#2

$$4 + 3 = 7$$

$$56 \div 7 = 8$$

$$4 \times 8 = 32 \div 2 = 16 \text{ cm} \checkmark$$

$$3 \times 8 = 24 \div 2 = 12 \text{ cm}$$

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185. c. 11

Four consecutive integers could be represented as n, n+1, n+2, n+3

Therefore, by saying that they have a mean of 9.5, we mean to say:

$$(n + n+1 + n+2 + n+3)/4 = 9.5$$

$$(4n + 6)/4 = 9.5$$

$$4n + 6 = 9.5(4)$$

$$4n = 38-6$$

$$4n = 32$$

$$n = 32/4$$

$$n = 8$$

Therefore, the largest value is

$$n + 3 =$$

$$8 + 3 = 11$$

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186. b.) 28

A baseball pitcher won 80% of the games he pitched. If he pitched 35 ballgames, how many games did he win?

80% of 35 won the game

$$0.8 \times 35 = 28 \checkmark$$

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187. C.) 75%

Jerry, an electrician, worked 9 months out of the year. What percent of the year did he work?

9 is what percent of 12

$$9 = n \times 12$$

$$9/12 = n$$

$$0.75 = n$$

$$0.75 \times 100\% = 75\% \checkmark$$

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188. a.) 60%

There are 40 students in a class. Sixteen of those students are boys. What percent of the class are girls?

$$B + G = 40$$

$$16 + G = 40$$

$$G = 40 - 16$$

$$G = 24$$

24 is what percent of 40

$$24 = n \times 40$$

$$24/40 = n$$

$$0.6 = n$$

$$0.6 \times 100\% = 60\% \checkmark$$

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189. d. 80%

Analie took a math test and got 48 correct and 12 incorrect answers. What was the percentage of correct answers?

$$48 + 12 = 60$$

48 is what percent of 60

$$48 = n \times 60$$

$$48/60 = n$$

$$0.8 = n$$

$$0.8 \times 100\% = 80\% \checkmark$$

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190. B. 250%

120 is what percent of 48?

$$120 = n \times 48$$

$$120/48 = n$$

$$2.5 = n$$

$$2.5 \times 100\% = 250\% \checkmark$$

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191. D. 60

120% of what number is 72?

$$120\% \times n = 72$$

$$1.2 \times n = 72$$

$$n = 72/1.2$$

$$n = 60 \checkmark$$

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192. C. 30

10% of 300 is what number?

$$10\% \times 300 = n$$

$$0.1 \times 300 = n$$

$$30 = n \checkmark$$

193. A. 3520

Two and one-half percent of what number is 88?

$$2 \frac{1}{2} \% \times n = 88$$

$$2.5\% \times n = 88$$

$$0.025 \times n = 88$$

$$n = 88/0.025$$

$$n = 3520 \checkmark$$

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194. A. 8

95% of people in my street have a car. There are 160 people in my street. How many do not have a car?

$$100\% - 95\% = 5\%$$

5% of 160 don't have a car

$$5\% \times 160 =$$

$$0.05 \times 160 = 8 \checkmark$$

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195. If 300 students filled form for entrance test and 280 appeared in test out of which only 70% have passed test then number of students who failed test are

$$100\% - 70\% = 30\%$$

30% of 280 failed the test

$$30\% \times 280 =$$

$$0.3 \times 280 = 84 \checkmark$$

For items# 186 to 195, watch this:

<https://www.youtube.com/watch?v=5VHezfw7Lm8>

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196. a.) 2 ✓

40% of 5 is equal to

$$40\% \times 5 =$$

$$0.4 \times 5 = 2 \text{ 🙌}$$

note:

of ---> "x"

is ---> "="

$$40\% \div 100\% = 0.4$$

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197. b.) 2/23 ✓

2/25 (two twentyfifth) of the computer are defective

---> means sa 25 na computer, dalawa yung defective...

---> 25-2 = 23 ang non defective

Ratio of DEFECTIVE vs NON

$$2 : 23 \text{ or } 2/23 \text{ 🙌}$$

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198. c.) 147414

divisible by 6 RULE:

If the sum of the digits is divisible by 3 and the last digit is divisible by 2.

So, we will focus choice B,C,E kasi ito yung may mga last digit na divisible by 2...

$$B. 6+2+5+8+7+4=32 \text{ ✗ } \times \div 3$$

$$C. 1+4+7+4+1+4=21 \text{ 🙌 } \div 3$$

$$E. 1+4+2+5+4+6=22 \text{ ✗ } \times \div 3$$

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199. d.) 5 ✓

given:

80% water

$$100\% - 80\% = 20\% \text{ pure orange}$$

Solution:

20% of 25L is pure orange

$$20\% \times 25 = \text{pure orange}$$

$$0.2 \times 25 = 5 \text{ 🙌}$$

$$200. e.) 13/16$$

$$(7/8 + 3/4)/2 =$$

$$(7/8 + 6/8)/2 =$$

$$(13/8)/2 = 13/16 \text{ 🙌}$$

Para mas klaru e rewrite natin
 $13/8 \div 2 =$ apply RULE of dividing FRACTION
 $13/8 \div 2 =$
 $13/8 \times 1/2 = 13/16 \text{ 🙌}$

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$$201. a.) -1/3 \checkmark$$

$$-6/(a - 3) = 3/(a + 2)$$

$$-6(a + 2) = 3(a - 3)$$

$$-6a - 12 = 3a - 9$$

$$-6a - 3a = -9 + 12$$

$$-9a = 3$$

$$a = 3/-9$$

$$a = -1/3 \text{ 🙌}$$

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$$202. a. 125,000 \checkmark$$

$$2,000,000 \times 0.25 = 500,000$$

$$500,000 \div 4 = 125,000 \text{ 🙌}$$

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$$203. a. 21/5$$

$$2/(1/7 + 1/3) =$$

$$2 \div (3/21 + 7/21) =$$

$$2 \div 10/21 =$$

$$2 \times 21/10 =$$

$$42/10 \text{ or } 21/5 \text{ 🙌}$$

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$$204. a. 35 \checkmark$$

$$(a+b)^2 = a^2 + 2ab + b^2$$

$$(a-b)^2 = a^2 - 2ab + b^2$$

$$a^2 + 2ab + b^2 = 25$$

$$a^2 - 2ab + b^2 = 45 \text{ (ADD)}$$

$$(2a^2 + 2b^2 = 70)/2$$

$$a^2 + b^2 = 35 \text{ 🙌}$$

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$$205. a. 12 \checkmark$$

APPLY the RULE not the acronym....

$$10 - 2 + 4 \times 2 - (10 \div 5 \times 2) =$$

$$10 - 2 + 4 \times 2 - (2 \times 2) =$$

$$10 - 2 + 4 \times 2 - (4) =$$

$$\quad \quad \quad \downarrow$$

$$10 - 2 + 8 - 4 =$$

$$\quad \quad \quad \downarrow$$

$$8 + 8 - 4 =$$

$$\quad \quad \quad \downarrow$$

$$16 - 4 = 12 \text{ 🙌}$$

VIDEO LINK for items #196 to 205
<https://youtu.be/t2-mqiVOC14>

206. d. 8144
 The population of a certain town is 5,000.
 ---> population is 5000

If it increases 5% each year,
 ---> EACH YEAR +5%

Q: what will be the approximate population at the end of 10 years?

Solution#1

$$5000 \times 1.05^{10} =$$

$$5000 \times 1.62889 =$$

$$8,144.45 = 8144 \checkmark$$

Solution#2:
 Listahan method:

- 1.) $5000 \times 1.05 = 5250$
- 2.) $5250 \times 1.05 = 5,512.5$
- 3.) $5,512 \times 1.05 = 5,787.6$
- 4.) $5,788 \times 1.05 = 6077$
- 5.) $6077 \times 1.05 = 6,380.85$
- 6.) $6,381 \times 1.05 = 6700.05$
- 7.) $6700 \times 1.05 = 7035$
- 8.) $7035 \times 1.05 = 7,386.75$
- 9.) $7,387 \times 1.05 = 7,756.35$
- 10.) $7,756 \times 1.05 = 8,143.8$

$$8,143.8 = 8,144$$

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$$207. b.) 3 \text{ km}$$

SOLUTION:
 Rate = distance/time
 Rate \times time = distance

$$\text{Distance} = 6\text{kph} \times 30\text{min}$$

$$\text{Distance} = 6\text{kph} \times 0.5\text{hr}$$

$$\text{Distance} = 3 \text{ km} \text{ 🙌 answer}$$

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$$208. b. 54 \text{ kph} \checkmark$$

SOLUTION:
 A boat takes 4/5 as much time to travel downstream as to its return.
 ---> 4 downstream vs 5 upstream

Rate of river current na nagpapabagal sa boat upstream:
 6kph

Let B be the speed of the boat:

$$4(\text{down}) = 5(\text{up})$$

$$4(B+6) = 5(B-6)$$

$$4B + 24 = 5B - 30$$

$$4B + 24 + 30 = 5B - 30 + 30$$

$$4B - 4B + 24 + 30 = 5B - 4B$$

$$24 + 30 = 5B - 4B$$

$$54 = B \checkmark \text{ answer}$$

209. b.) 30 km ✓

SOLUTION:

Rate = distance/time

Rate × time = distance

Distance = 60 kph × 30min

Distance = 60 kph × 0.5hr

Distance = 30 km ✓ ✓ Answer

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210. d.) 48 mph

SOLUTION:

Rate = distance/time

time = distance/rate

Total distance:

$120 \times 2 = 240$ miles

Total time:

1st trip = $120/40 = 3$ hrs

Return = $120/60 = 2$ hrs

3hrz + 2hrs = 5hrs

Average =

Total distance ÷ total time

$240m \div 5hrs = 48mph$ ✓ ✓

youtube link for detailed soln:

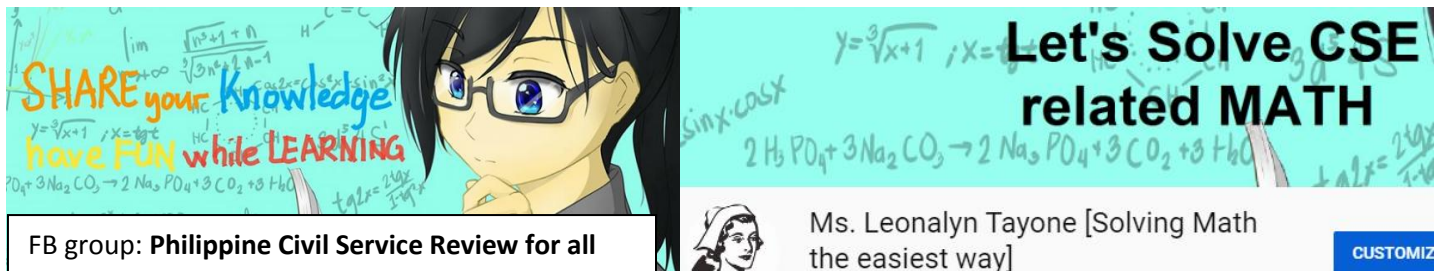
https://youtu.be/_D3J2o4__ZY

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