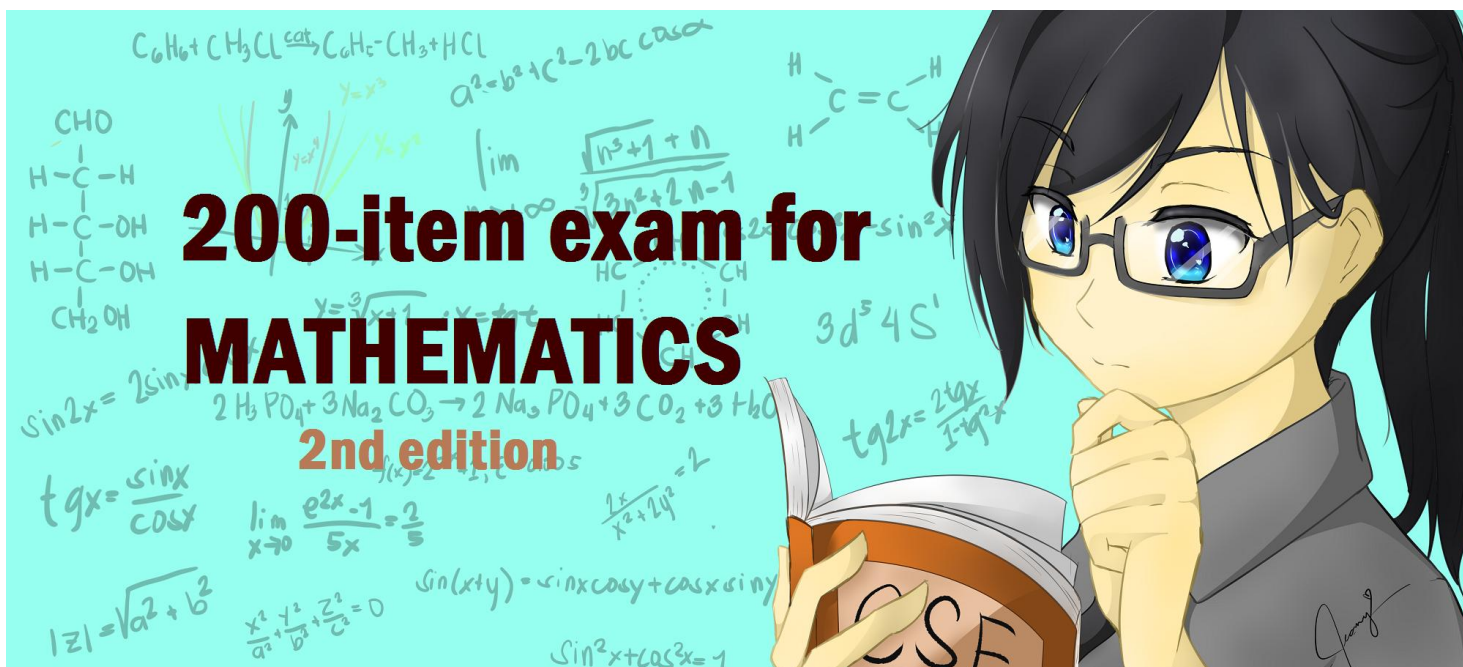
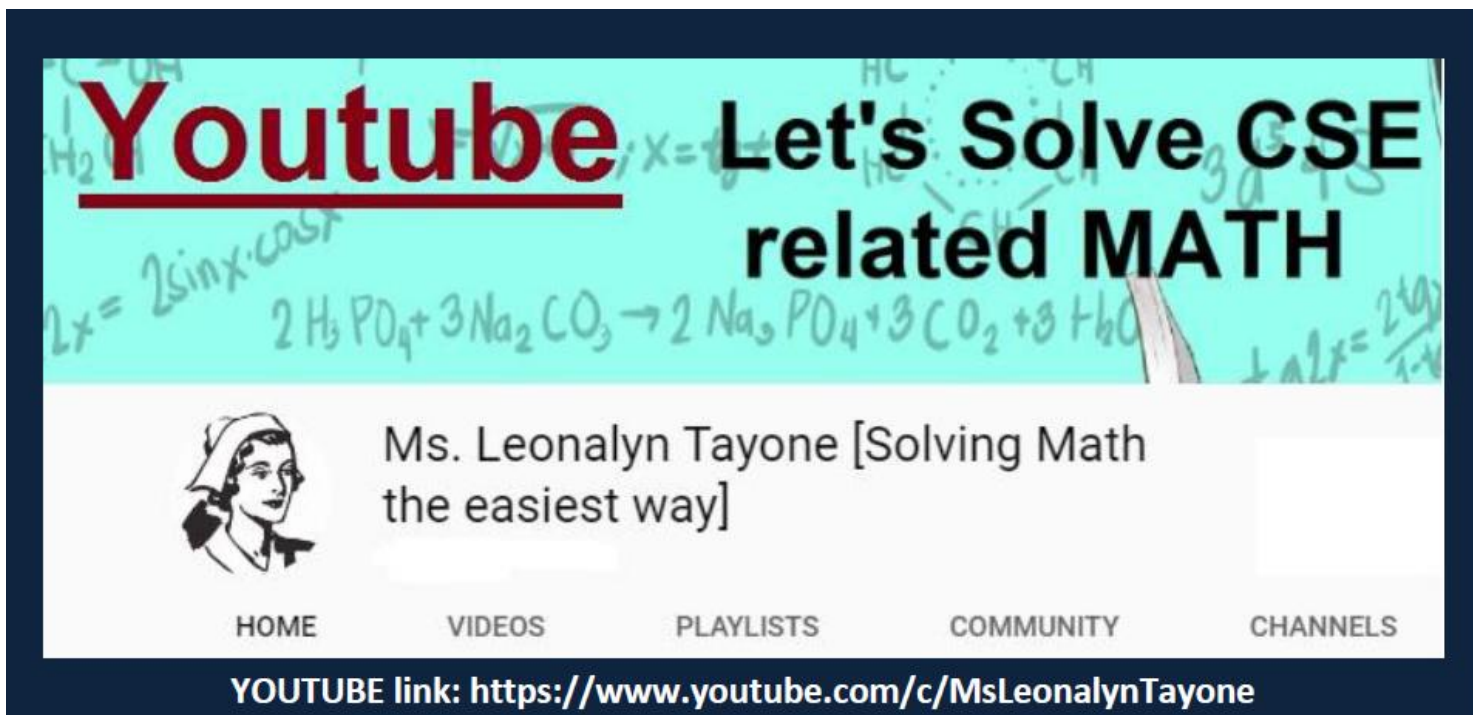


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This first section will provide a warm-up session before you move on to more difficult kinds of problems.

- 1.) 56.73647 rounded to the nearest hundredth is equal to
a. 100 b. 57 c. 56.7 d. 56.74
- 2.) Which number sentence is true?
a. $0.43 < 0.043$ b. $0.0043 > 0.43$ c. $0.00043 > 0.043$ d. $0.043 > 0.0043$
- 3.) $78.09 + 19.367 =$
a. 58.723 b. 87.357 c. 97.457 d. 271.76
- 4.) $3.419 - 0.7 =$
a. 34.12 b. 0.2719 c. 2.719 d. 0.3412
- 5.) $2.9 \div 0.8758 =$
a. 3.31 b. 0.331 c. 0.302 d. 0.0302
- 6.) $195.6 \div 7.2$, rounded to the nearest hundredth, is equal to
a. 271.67 b. 27.17 c. 27.16 d. 2.717
- 7.) $426 - 7.2 =$
a. 354.0 b. 425.28 c. 418.8 d. 41.88
- 8.) $6.35 \times 5 =$
a. 31.75 b. 30.75 c. 3.175 d. 317.5
- 9.) $5.9 - 4.166 =$
a. 1.844 b. 1.843 c. 1.744 d. 1.734
- 10.) $172 \times 0.56 =$
a. 9.632 b. 96.32 c. 963.2 d. 0.9632
- 11.) $0.63 \times 0.42 =$
a. 26.46 b. 2.646 c. 0.2646 d. 0.02646

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- 12.) What is six and five hundredths written as a decimal?
a. 0.065 b. 6.5 c. 6.05 d. 6.005
- 13.) In the following decimal, which digit is in the hundredths place? 0.9402
a. 9 b. 0 c. 2 d. 4
- 14.) What is 0.716 rounded to the nearest tenth?
a. 0.7 b. 0.8 c. 0.72 d. 1.00
- 15.) Which of these has a 9 in the thousandths place?
a. 3.0095 b. 3.0905 c. 3.9005 d. 3.0059
- 16.) $4.5 \div 2.5 =$
a. 20.0 b. 2.0 c. 1.8 d. 0.2
- 17.) $0.216 + 9.3 + 72.0 =$
a. 81.516 b. 77.516 c. 16.716 d. 0.381
- 18.) $0.49 \times 0.07 =$
a. 34.3 b. 0.0343 c. 3.43 d. 0.343
- 19.) $945.6 \div 24 =$
a. 3,940 b. 394 c. 39.4 d. 3.946
- 20.) $72.687 + 145.29 =$
a. 87.216 b. 217.977 c. 217.877 d. 882.16
- 21.) $0.088 + 0.091 =$
a. 0.017 b. 0.169 c. 0.177 d. 0.179
- 22.) $3.6 - 1.89 =$
a. 1.47 b. 1.53 c. 1.71 d. 2.42
- 23.) What is another way to write 2.75×100^2 ?
a. 275 b. 2,750 c. 27,500 d. 270,000
- 24.) $3.16 \div 0.079 =$
a. 0.025 b. 2.5 c. 4.0 d. 40.0
- 25.) $367.08 \times 0.15 =$
a. 22.0248 b. 55.051 c. 55.062 d. 540.62
- 26.) What is another way to write 7.25×10^3 ?
a. 72.5 b. 725 c. 7,250 d. 72,500
- 27.) What is the result of multiplying 11 by 0.032?
a. 0.032 b. 0.0352 c. 0.32 d. 0.352

- 28.) $0.31 + 0.673 =$
 a. 0.0983 b. 0.983 c. 0.967 d. 9.83
- 29.) Which of the following numbers is NOT between -0.02 and 1.02 ?
 a. -0.15 b. -0.015 c. 0 d. 0.02
- 30.) Which of the following represents the word form of the decimal 0.007?
 a. seven tenths b. seven hundredths c. seven thousandths d. seven ten-thousandths
- 31.) Which of the following decimals has the GREATEST value?
 a. 6.723 b. 6.0723 c. 6.7023 d. 6.7
- 32.) Which of the following decimals has the LEAST value?
 a. 0.0012 b. 0.0102 c. 0.012 d. 0.12
- 33.) What is 72.0094 rounded to the nearest hundredth?
 a. 72.009 b. 72.01 c. 72.09 d. 72.1
- 34.) What is the sum of $11.006 + 34 + 0.72$ rounded to the nearest tenth?
 a. 45.1 b. 45.7 c. 45.73 d. 46
- 35.) $12.9991 + 78 + 0.9866 =$
 a. 90.9857 b. 90.0957 c. 91.9857 d. 91.9957
- 36.) $2 - 0.42 - 0.1 =$
 a. 14.8 b. 1.48 c. 1.048 d. 1.0048
- 37.) Yuri and Catherine begin driving at the same time but in opposite directions. If Yuri drives 60 miles per hour, and Catherine drives 70 miles per hour, how long will it be before they are 325.75 miles apart?
 a. 2 hours b. 2.25 hours c. 2.5 hours d. 2.75 hours
- 38.) A garden store offers \$0.75 off all pumpkins after Halloween. If a certain pumpkin is priced at \$3.20 after Halloween, what was the original price?
 a. \$2.45 b. \$3.75 c. \$3.95 d. \$4.05
- 39.) A bottle of apple juice contains 1.42 liters; a bottle of grape juice contains 1.89 liters. How many total liters of juice are there in the two bottles?
 a. 0.47 liters b. 2.31 liters c. 3.21 liters d. 3.31 liters
- 40.) Over the last few years, the average number of dogs in the neighborhood has dropped from 17.8 to 14.33. What is the decrease in the number of dogs in the neighborhood?
 a. 3.47 dogs b. 2.66 dogs c. 3.15 dogs d. 2.75 dogs
- 41.) The number of half- pound packages of tea that can be weighed out of a box that holds $10\frac{1}{2}$ lb. of tea is
 a. 5 b. $10\frac{1}{2}$ c. 11 d. $20\frac{1}{2}$ e. 21

- 42.) If each bag of tokens weighs $5\frac{3}{4}$ pounds, how many pounds do three bags weigh?
 a. $7\frac{1}{4}$ b. $15\frac{3}{4}$ c. $16\frac{1}{2}$ d. $17\frac{1}{4}$
- 43.) During one week, a man travelled $3\frac{1}{2}$, $1\frac{1}{4}$, $1\frac{14}{24}$, and $2\frac{3}{8}$ miles. The next week he travelled $\frac{1}{4}$, $\frac{3}{8}$, $\frac{9}{16}$, $3\frac{1}{16}$, $2\frac{5}{8}$, and $3\frac{3}{16}$ miles. How many more miles did he travel the second week than the first week?
 a. $1\frac{17}{48}$ b. $1\frac{1}{2}$ c. $1\frac{3}{4}$ d. 1
- 44.) A certain type of board is sold only in length of multiples of 2ft. The shortest board sold is 6ft & the largest is 24 ft. A builder needs a large quantity of this type of board in $5\frac{1}{2}$ ft length. For minimum wastage the lengths to be ordered should be :
 a. 6 ft b. 12 ft c. 22 ft d. 24 ft
- 45.) A man spent $\frac{15}{16}$ of his entire fortune in buying a car for \$7,500. How much money did he possess?
 a. \$6,000 b. \$6,500 c. \$7,000 d. \$8,000
- 46.) The population of a town was 54,000 in the last census. It has increased $\frac{2}{3}$ since then. Its present population is
 a. 18,000 b. 36,000 c. 72,000 d. 90,000
- 47.) If one third of the liquid contents of a can evaporates on the first day, and three fourths of the remainder evaporates on the second day, the part of the original contents remaining at the close of the second day is
 a. $\frac{5}{12}$ b. $\frac{7}{12}$ c. $\frac{1}{6}$ d. $\frac{1}{2}$
- 48.) A car is run until the gas tank is $\frac{1}{8}$ full. The tank is then filled to capacity by putting in 14 gallons. The capacity of the gas tank of the car is
 a. 14gal b. 15 gal. c. 16 gal. d. 17 gal.
- 49.) A race car travelled for $2\frac{1}{2}$ hours with an average speed of $132\frac{5}{8}$ km per hour. Find the total distance it covered.
 a. $264\frac{5}{16}$ km b. $331\frac{9}{16}$ km c. $330\frac{5}{16}$ km d. $135\frac{1}{8}$ km
- 50.) Melinda and Joaquin can restock an aisle at the supermarket in one hour working together. Melinda can restock an aisle in 1.5 hours working alone, and it takes Joaquin 2 hours to restock an aisle. If they work together for two hours, and then work separately for another two hours, how many aisles will they have completed?
 a. 5 b. 4.5 c. 4.33 d. 3.5
- 51.) My greyhound, Zelda, can run 35.25 miles an hour, while my cat, Spot, can run only $\frac{1}{4}$ that fast. How many miles per hour can Spot run?
 a. 8.25 miles per hour b. 8.77 miles per hour c. 8.81 miles per hour d. 9.11 miles per hour
- 52.) A 600-page book is 1.5 inches thick. What is the thickness of each page?
 a. 0.0010 inches b. 0.0030 inches c. 0.0025 inches d. 0.0600 inches
- 53.) If $3a-3b$ is subtracted from $4a+4b$, the result is??
 a. $-a-7b$ b. $7a-b$ c. $a+b$ d. $7a+b$ e. $a+7b$

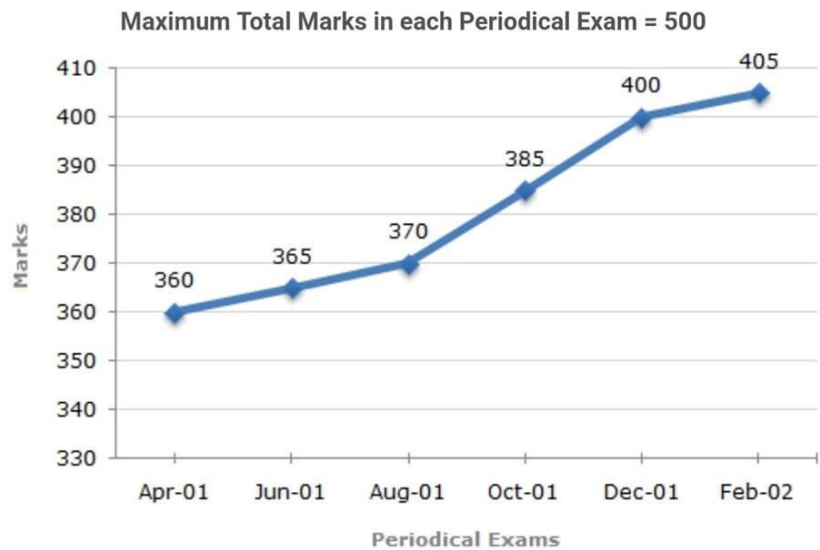
DATA INTERPRETATION:

LINE CHART

For Questions 54 to 56:

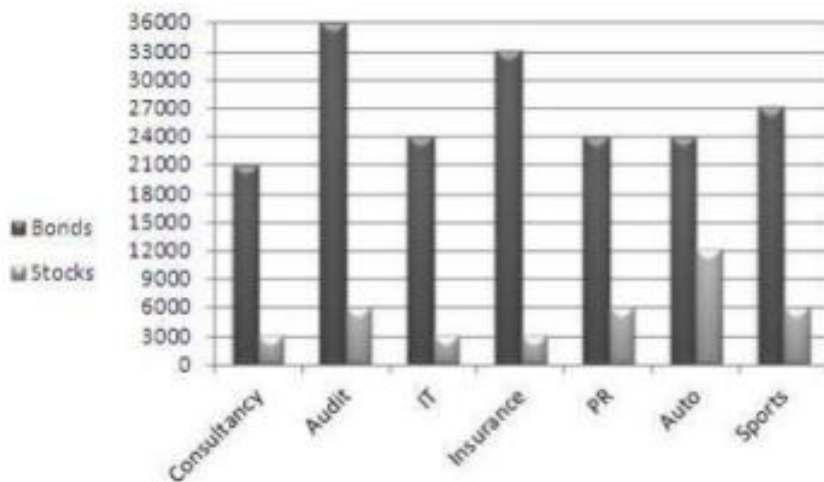
Line chart: Marks obtained by student in six periodical held in every two months during the year in the session 2001-2002.

Maximum total marks in each periodical exam = 500

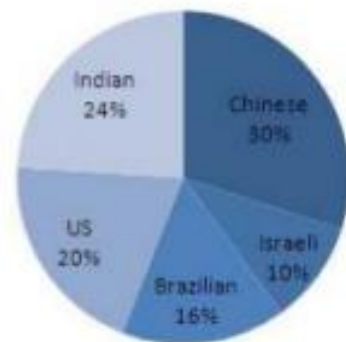


- 54.) What are the average marks obtained by the student in all the periodical exams during the last session?
 A. 373 B. 379 C. 381 D. 385
- 55.) In which periodical exams there is a fall in percentage of marks as compared to the previous periodical exams?
 A. None B. June, 01 C. Oct, 01 D. Feb, 02
- 56.) The total number of marks obtained in Feb. 02 is what percent of the total marks obtained in April 01 ?
 A. 110% B. 112.5% C. 115% D. 116.5%

Distribution of Securities (000s)

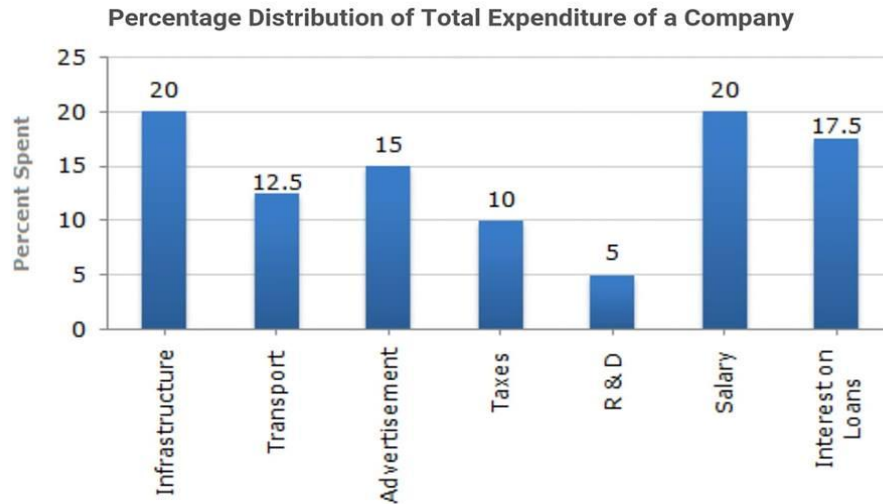


Origin of Insurance Securities



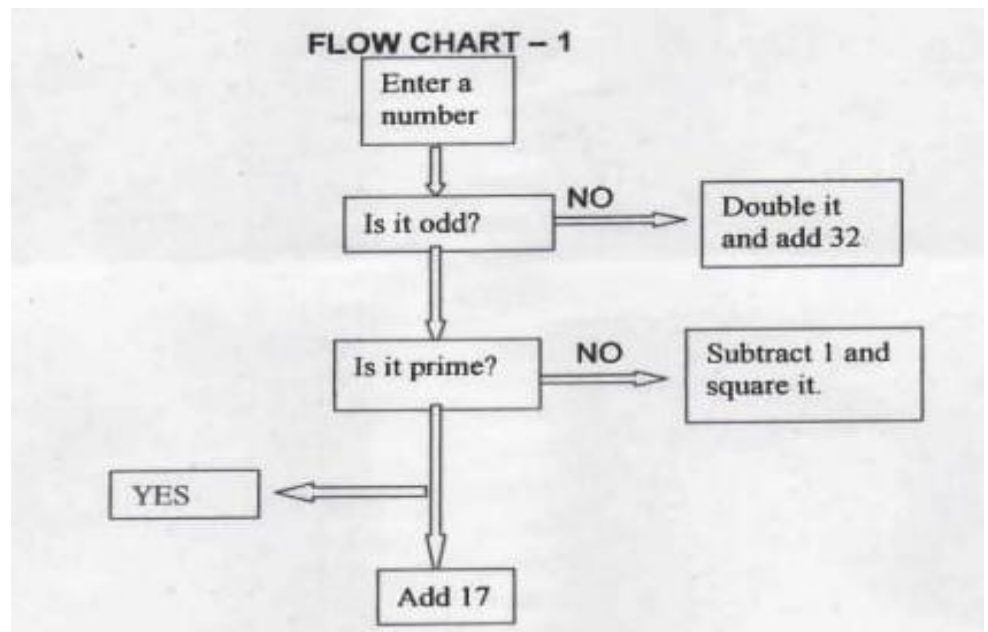
- 57.) If the number of Chinese Insurance stocks represented 3.5% of all Insurance securities, approximately how many Insurance bonds were Chinese?
 a. 9,200,000 b. 9,500,000 c. 10,800,000 d. 910,000 e. 1,080,000

For questions 58 and 59: The bar graph given below shows the percentage distribution of the total expenditures of a company under various expense heads during 2003.



- 58.) What is the ratio of the total expenditure on infrastructure and transport to the total expenditure on taxes and interest on loans?
 a. 5:4 b. 8:7 c. 9:7 d. 13:11
- 59.) The expenditure on the interest on loans is by what percent more than the expenditure on transport?
 a. 5% b. 10% c. 20% d. 40%

**For questions 60 and 61:
 FLOW CHART**



- 60.) Based on the flow chart, what is the result if the input number is 51?
 a. 68 b. 101 c. 134 d. 1,500 e. 2,500
- 61.) Based on the flow chart, what is the input number if the result is 440?
 a. 21 b. 74 c. 204 d. 423 e. 440

- 62.) Of 850 employees who applied for a scholarship program, 800 met the minimum requirements. Fifteen percent of them failed to take the written examination. What percent of all the applicants took the written examination?
 a. 80% b. 85% c. 90% d. 92% e. 95%
- 63.) A water tank is $\frac{7}{8}$ full. When 21 liters of water are drawn out, the tank is $\frac{5}{8}$ full. What is the total capacity of the tank in liters?
 a. 63 b. 84 c. 87 d. 93 e. 45
- 64.) Liza is 26 years old. Riza is 2 years old. In how many years will Liza be triple Riza's age?
 a. 10 years b. 12 years c. 14 years d. 16 years
- 65.) $(99)^0 - (-2)^2 + (-3^2) - (-4)^2 = ?$
 a. -28 b. -10 c. -9 d. 30 e. none of these
- 66.) $(100)^0 + (-4^2) - 2^2 = ?$
 a. 19 b. -19 c. 13 d. 21 e. none of these
- 67.) $\sqrt{0.000081} = ?$
 a. 9 b. 0.09 c. 0.009 d. 0.0009 e. 0.00009
- 68.) $\sqrt{0.0025} = ?$
 a. 5 b. 0.5 c. 0.05 d. 0.005 e. 0.0005
- 69.) 20% of 30% of X is 225, what is the value of X?
 a. 825 b. 375 c. 450 d. 3750 e. none of these
- 70.) 2% of 5% of N is 1, what is the value of N?
 a. 10 b. 100 c. 1000 d. 10000 e. none of these
- 71.) 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
- 72.) 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
- 73.) The product of the ages of three brothers is 45. If the two brothers are twins what is the age of the other brother?
 a. 2 b. 3 c. 4 d. 5 e. 6
- 74.) The product of the ages of three sisters is 256. If the two sisters are twins what is the age of the other sister?
 a. 8 b. 10 c. 14 d. 16 e. 32
- 75.) Suppose you bought something that was priced at Php15.00, and the total bill was Php16.20. What is the sales tax rate in this City?
 a. 8% b. 8.5% c. 9% d. 9.5% e. 10%

- 76.) Suppose you bought something that was priced at Php152.20, and the total bill was Php159.81. What is the sales tax rate in this City?
 a. 4.7% b. 3% c. 4.5% d. 5% e. 6%
- 77.) $(8 \div 4 \times 2)$, $(16 \div 4 \times 2)$, $(32 \div 4 \times 2)$, _____
 a. 64 b. 32 c. 16 d. 8 e. None of these
- 78.) $(10 - 30 + 4 + 2 \times 0)$, $(15 - 28 + 4 + 2 \times 0)$, $(20 - 26 + 4 + 2 \times 0)$, _____
 a. 0 b. -3 c. 3 d. 5 e. None of these
- 79.) 1, 2, 3, 6, 7, _____
 a. 14 b. 8 c. 13 d. 9 e. 10
- 80.) 25, 150, 30, 240, 48, _____
 a. 280 b. 380 c. 480 d. 580 e. 680
- 81.) 16, 1, 8, 81, 4, 27, 256, 9, 64, 625, _____
 a. 12 b. 16 c. 25 d. 49 e. 81
- 82.) $\frac{1}{12}$ $\frac{1}{6}$ $\frac{1}{4}$ $\frac{1}{3}$ $\frac{5}{12}$ _____
 a. $\frac{1}{2}$ b. $\frac{7}{12}$ c. $\frac{3}{4}$ d. $\frac{2}{6}$ e. $\frac{1}{5}$
- 83.) A sum of money amounts to ₱9,800 after 5 years and ₱12,005 after 8 years at the same rate of simple interest. The rate of interest per annum is:
 a. 5% b. 8% c. 12% d. 15%
- 84.) The least number of complete years in which a sum of money put out at 20% compound interest will be more than doubled is:
 a. 3 b. 4 c. 5 d. 6
- 85.) 125 gallons of a MIXTURE contains 20% water. What amount of additional water should be added such that water content be raised to 25%?
 a. $15\frac{1}{2}$ gallons b. $17\frac{1}{2}$ gallons c. $19\frac{1}{2}$ gallons d. $25\frac{1}{3}$ gallons
- 86.) When the original price of an item is increased by a certain rate, the increased price is P3100. When the original price is decreased by the same rate, the decreased priced is P 1900. What is the original price of the item?
 a.) P 1200 b.) P 200 c.) P 2500 d.) P 2800
- 87.) Round off value of 6488 to nearest hundreds.
 a. 6400 b. 7000 c. 6500 d. 6600
- 88.) Round off value of 78.25 to nearest tenths.
 a. 78.2 b. 80.0 c. 79.0 d. 78.3 e. None of these
- 89.) 235.2165 rounded off to nearest hundredths.
 a. 200 b. 235.217 c. 235.216 d. 250 e. None of these
- 90.) 153,241.6532 rounded off to nearest ten thousands.
 a. 160,000 b. 150,000 c. 153,241 d. 200,000 e. None of these

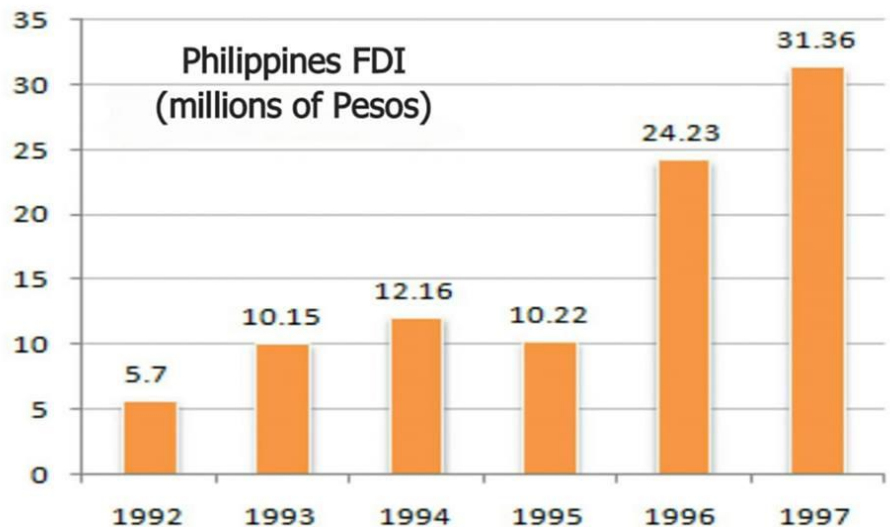
- 91.) 153,241.6532 rounded off to nearest thousandths.
 a. 153,000 b. 153,241.66 c. 153,241.653 d. 200,000 e. None of these
- 92.) 153,241.6532 rounded off to nearest tenths.
 a. 153,240 b. 153,241.6 c. 153,241.7 d. 153,250 e. None of these
- 93.) 153,241.6532 rounded off to nearest hundreds.
 a. 153,200 b. 153,300 c. 153,241.65 d. 153,241.7 e. None of these
- 94.) 153,241.6532 rounded off to nearest hundred thousands.
 a. 100,000 b. 150,000 c. 160,000 d. 200,000 e. None of these
- 95.) One fourth percent of a number is 25. What is the number?
 a. 100 b. 1000 c. 10,000 d. 100,000
- 96.) On Monday, Freida slept 6.45 hours; on Tuesday, 7.32; on Wednesday, 5.1; on Thursday, 6.7; and on Friday she slept 8.9 hours. How much total sleep did she get over the five days?
 a. 40.34 hours b. 34.47 hours c. 36.78 hours d. 42.67 hours
- 97.) Last week, Flora had \$67.98 saved from babysitting. She made another \$15.75 baby-sitting this week and spent \$27.58 on CDs. How much money does she have now?
 a. \$71.55 b. \$24.65 c. \$111.31 d. \$56.15
- 98.) Roommates Bob and Ted agreed to wallpaper and carpet the living room and replace the sofa. The wallpaper costs \$103.84, the carpet costs \$598.15, and the new sofa costs \$768.56. Bob agrees to pay for the carpet and wallpaper and Ted agrees to pay for the sofa. How much more money will Ted spend than Bob?
 a. \$68.56 b. \$76.55 c. \$66.57 d. \$72.19
- 99.) 4. Kitty litter costs \$3.59 for 25 pounds. How much does 100 pounds cost?
 a. \$14.36 b. \$35.90 c. \$17.95 d. \$10.77
- 100.) 5. A waiter earned a total of \$71 in tips over 4 days. What was the average amount of tip per day?
 a. \$17.00 b. \$17.70 c. \$17.75 d. \$18.00
- 101.) Tank A, when full, holds 555 gallons of water. Tank B, when full, holds 680 gallons of water. If Tank A is only $\frac{2}{3}$ full and Tank B is only $\frac{2}{5}$ full, how many more gallons of water are needed to fill both tanks to capacity?
 a. 319 gallons b. 593 gallons c. 642 gallons d. 658 gallons
- 102.) At a party there are 3 large pizzas. Each pizza has been cut into 9 equal pieces. Eight-ninths of the first pizza have been eaten; $\frac{2}{3}$ of the second pizza have been eaten; $\frac{7}{9}$ of the third pizza have been eaten. What fraction of the 3 pizzas is left?
 a. $\frac{2}{9}$ b. $\frac{2}{7}$ c. $\frac{1}{3}$ d. $\frac{1}{6}$
- 103.) If it takes four firefighters 1 hour and 45 minutes to perform a particular job, how long would it take one firefighter working at the same rate to perform the same task alone?
 a. 4 $\frac{1}{2}$ hours b. 5 hours c. 7 hours d. 7 $\frac{1}{2}$ hours

- 104.) Joel can change one light bulb in $\frac{5}{6}$ minute. Working at that same rate, how many minutes would it take him to change five light bulbs?
 a. $4\frac{1}{6}$ minutes b. $4\frac{1}{3}$ minutes c. $4\frac{2}{3}$ minutes d. $5\frac{1}{6}$ minutes
- 105.) Ryan has two bags of jelly beans. One weighs $10\frac{1}{4}$ ounces; the other weighs $9\frac{1}{8}$ ounces. If Ryan puts the two bags together and then divides all of the jelly beans into 5 equal parts to give to his friends, how many ounces will each friend get?
 a. $3\frac{3}{4}$ ounces b. $3\frac{7}{8}$ ounces c. 4 ounces d. $4\frac{1}{4}$ ounces
- 106.) At a certain school, half the students are female and one-twelfth of the students are from outside the state. What proportion of the students would you expect to be females from outside the state?
 a. $\frac{1}{12}$ b. $\frac{1}{24}$ c. $\frac{1}{6}$ d. $\frac{1}{3}$
- 107.) How many minutes are in $7\frac{1}{6}$ hours?
 a. 258 minutes b. 430 minutes c. 2,580 minutes d. 4,300 minutes
- 108.) One lap on a particular outdoor track measures a quarter of a mile around. To run a total of three and a half miles, how many complete laps must a person run?
 a. 14 laps b. 18 laps c. 7 laps d. 10 laps
- For questions 109 and 110:** During the month of June, Bus #B-461 used the following amounts of oil:
 June 1— $3\frac{1}{2}$ quarts
 June 19— $2\frac{3}{4}$ quarts
 June 30—4 quarts
- 109.) What is the total number of quarts used in June?
 a. $9\frac{3}{4}$ quarts b. 10 quarts c. $10\frac{1}{4}$ quarts d. $10\frac{1}{2}$ quarts
- 110.) How many ounces are in $9\frac{1}{2}$ pounds?
 a. 192 ounces b. 182 ounces c. 152 ounces d. 132 ounces
- 111.) Pete's dog is on a special diet and has lost 15 pounds. If this is $\frac{1}{8}$ of the dog's original weight, what was the original weight?
 a. 105 pounds b. 110 pounds c. 115 pounds d. 120 pounds
- 112.) In a cashier contest, Maria packed $15\frac{1}{2}$ bags of groceries in 3 minutes. How many bags did she average each minutes?
 a. $4\frac{1}{2}$ bags per minute
 b. 5 bags per minute
 c. $5\frac{1}{4}$ bags per minute
 d. $5\frac{1}{6}$ bags per minute
- 113.) Cheryl lives $5\frac{1}{3}$ miles from where she works. When traveling to work she walks to a bus stop $\frac{1}{4}$ of the way to catch a bus. How many miles away from her house is the bus stop?
 a. $5\frac{1}{3}$ miles b. $4\frac{1}{3}$ miles c. $2\frac{1}{3}$ miles d. $1\frac{1}{3}$ miles
- 114.) At birth, Winston weighed $6\frac{1}{2}$ pounds. At one year of age, he weighed $23\frac{1}{8}$ pounds. How much weight, in pounds, did he gain?
 a. $16\frac{5}{8}$ pounds b. $16\frac{7}{8}$ pounds c. $17\frac{1}{6}$ pounds d. $17\frac{3}{4}$ pounds

- 115.) Marcia wants to make muffins and needs $\frac{3}{4}$ cup of sugar. She discovers, however, that she has only $\frac{2}{3}$ cup of sugar. How much more sugar does she need?
- a. $\frac{1}{12}$ cup b. $\frac{1}{8}$ cup c. $\frac{1}{6}$ cup d. $\frac{1}{4}$ cup

For questions 116 to 120

The following bar chart shows the trends of foreign direct investments (FDI) into Philippines from all over the world.



- 116.) What was the ratio of investment in 1997 over the investment in 1992 ?
- A. 5.50 B. 5.36 C. 5.64 D. 5.75
- 117.) What was absolute difference in the FDI to Philippines in between 1996 and 1997 ?
- A. 7.29 B. 7.13 C. 8.13 D. None of these
- 118.) If Philippine FDI from OPEC countries was proportionately the same in 1992 and 1997 as the total FDI from all over the world and if the FDI in 1992 from the OPEC countries was Php 2 million. What was the amount of FDI from the OPEC countries in 1997 ?
- A. 11 B. 10.72 C. 11.28 D. 11.5
- 119.) Which year exhibited the highest growth in FDI in Philippines over the period shown ?
- A. 1993 B. 1994 C. 1995 D. 1996
- 120.) What was Philippines' total FDI for the period shown in the figure ?
- A. 93.82 B. 93.22 C. 93.19 D. None of these
- 121.) How many inches are there in $3\frac{1}{3}$ yards?
- a. 126 inches b. 120 inches c. 160 inches d. 168 inches
- 122.) Carlin's Candy Shop opened for business on Saturday with $22\frac{1}{4}$ pounds of fudge. During the day, they sold $17\frac{5}{8}$ pounds of fudge. How many pounds were left?
- a. $4\frac{1}{2}$ pounds b. $4\frac{5}{8}$ pounds c. $4\frac{7}{8}$ pounds d. $5\frac{3}{8}$ pounds
- 123.) A child's swimming pool contains $20\frac{4}{5}$ gallons of water. If $3\frac{1}{3}$ gallons of water are splashed out of the pool while the children are playing, how many gallons of water are left?
- a. $16\frac{1}{12}$ gallons b. $16\frac{3}{5}$ gallons c. $17\frac{7}{15}$ gallons d. $17\frac{2}{3}$ gallons

- 124.) During the month of May, $\frac{1}{6}$ of the buses in District A were in the garage for routine maintenance. In addition, $\frac{1}{8}$ of the buses were in for other repairs. If a total of 28 buses were in for maintenance and repairs, how many buses did District A have altogether?
 a. 80 buses b. 84 buses c. 91 buses d. 96 buses
- 125.) On Monday, a kindergarten class uses $2\frac{1}{4}$ pounds of modeling clay the first hour, $4\frac{5}{8}$ pounds of modeling clay the second hour, and $\frac{1}{2}$ pound of modeling clay the third hour. How many pounds of clay does the class use during the three hours on Monday?
 a. $6\frac{3}{8}$ pounds b. $6\frac{7}{8}$ pounds c. $7\frac{1}{4}$ pounds d. $7\frac{3}{8}$ pounds
- 126.) Three kittens weigh $2\frac{1}{3}$ pounds, $1\frac{5}{6}$ pounds, and $2\frac{2}{3}$ pounds. What is the total weight of the kittens?
 a. $6\frac{1}{3}$ pounds b. $6\frac{5}{6}$ pounds c. $7\frac{1}{6}$ pounds d. $7\frac{1}{3}$ pounds
- 127.) If Rachel has worked a total of $26\frac{1}{4}$ hours so far this week, and has to work a total of $37\frac{1}{2}$ hours, how much longer does she have to work?
 a. $10\frac{1}{4}$ hours b. $11\frac{1}{4}$ hours c. $11\frac{3}{4}$ hours d. $13\frac{1}{2}$ hours
- 128.) On Roy's daily jog, he travels a distance of $\frac{1}{2}$ mile to get to the track and $\frac{1}{2}$ mile to get home from the track. One lap around the track is $\frac{1}{4}$ mile. If Roy jogs 5 laps around the track, what is the total distance that he travels?
 a. $2\frac{1}{4}$ miles b. $2\frac{1}{2}$ miles c. 3 miles d. $3\frac{1}{4}$ miles
- 129.) Suzy's pie recipe calls for $1\frac{1}{3}$ cups sugar. If she wants to add an additional $\frac{1}{3}$ cup to make the pie sweeter, how much sugar will she need in all?
 a. $1\frac{1}{9}$ cups b. $1\frac{1}{6}$ cups c. $1\frac{2}{9}$ cups d. $1\frac{2}{3}$ cups
- 130.) Jonah hiked $7\frac{3}{8}$ miles on Friday, $6\frac{3}{10}$ miles on Saturday, and $5\frac{1}{5}$ miles on Sunday. How many miles did he hike in all?
 a. $18\frac{5}{8}$ miles b. $18\frac{7}{8}$ miles c. $19\frac{3}{5}$ miles d. $20\frac{1}{10}$ miles
- 131.) Miguel owns $16\frac{3}{4}$ acres of land. If he buys another $2\frac{3}{5}$ acres, how many acres of land will he own in all?
 a. $18\frac{4}{5}$ acres b. $18\frac{9}{20}$ acres c. $19\frac{3}{10}$ acres d. $19\frac{7}{20}$ acres
- 132.) It takes Paula 25 minutes to wash her car. If she has been washing her car for 15 minutes, what fraction of the job has she already completed?
 a. $\frac{3}{5}$ b. $\frac{1}{2}$ c. $\frac{4}{15}$ d. $\frac{2}{5}$
- 133.) It takes 3 firefighters $1\frac{2}{5}$ hours to clean their truck. At that same rate, how many hours would it take one firefighter to clean the same truck?
 a. $2\frac{4}{7}$ hours b. $3\frac{4}{5}$ hours c. $4\frac{1}{5}$ hours d. $4\frac{2}{5}$ hours
- 134.) How many $5\frac{1}{4}$ -ounce glasses can be completely filled from a $33\frac{1}{2}$ -ounce container of juice?
 a. 4 glasses b. 5 glasses c. 6 glasses d. 7 glasses
- 135.) If one pint is $\frac{1}{8}$ of a gallon, how many pints are there in $3\frac{1}{2}$ gallons of ice cream?
 a. $\frac{7}{16}$ pints b. $24\frac{1}{2}$ pints c. $26\frac{1}{16}$ pints d. 28 pints

- 136.) Eric's walking speed is $2\frac{1}{2}$ miles per hour. If it takes Eric 6 minutes to walk from his home to the bus stop, how far is the bus stop from his home?
 a. $\frac{1}{8}$ mile b. $\frac{1}{4}$ mile c. $\frac{1}{2}$ mile d. 1 mile
- 137.) The directions on an exam allow $2\frac{1}{2}$ hours to answer 50 questions. If you want to spend an equal amount of time on each of the 50 questions, about how much time should you allow for each one?
 a. 45 seconds b. $1\frac{1}{2}$ minutes c. 2 minutes d. 3 minutes
- 138.) Which of these is equivalent to 35°C ?
 ($F = \frac{9}{5}C + 32$)
 a. 105°F b. 95°F c. 63°F d. 19°F
- 139.) A firefighter checks the gauge on a cylinder that normally contains 45 cubic feet of air and finds that the cylinder has only 10 cubic feet of air. The gauge indicates that the cylinder is
 a. $\frac{1}{4}$ full b. $\frac{2}{9}$ full c. $\frac{1}{3}$ full d. $\frac{4}{5}$ full
- 140.) The high temperature in a certain city was 113°F . At about what temperature Celsius was this temperature?
 $C = \frac{5}{9}(F - 32)$
 a. 45°C b. 45.5°C c. 51°C d. 81.5°C
- 141.) Millie is a night security guard at the Art Museum. Each night, she is required to walk through each gallery once. The Museum contains 52 galleries. This night, Millie has walked through 16 galleries. What fraction of the total galleries has she already visited?
 a. $\frac{4}{13}$ b. $\frac{1}{16}$ c. $\frac{5}{11}$ d. $\frac{3}{14}$
- 142.) Alan has been ill and worked only $\frac{3}{4}$ of his usual 40 hour week. He makes \$12.35 an hour. How much has he earned this week?
 a. \$247.00 b. \$308.75 c. \$370.50 d. \$432.25
- 143.) A recipe calls for $\frac{1}{4}$ teaspoon of red pepper. How much red pepper would you need for half a recipe?
 a. $\frac{1}{10}$ teaspoon b. $\frac{1}{8}$ teaspoon c. $\frac{1}{6}$ teaspoon d. $\frac{1}{2}$ teaspoon
- 144.) Juana's lawn is 30 yards by 27 yards. Yesterday, Juana mowed $\frac{2}{3}$ of the lawn. How many square yards are left to be mowed today?
 a. 270 square yards b. 540 square yards c. 810 square yards d. 1080 square yards
- 145.) A thirty-minute time slot on a television network contains 24 minutes of comedy and 6 minutes of commercials. What fraction of the program time is devoted to commercials?
 a. $\frac{1}{6}$ of the time b. $\frac{1}{4}$ of the time c. $\frac{1}{3}$ of the time d. $\frac{1}{5}$ of the time
- 146.) Wendy is writing a test to give to her History class. She wants the test to include 40 multiple choice questions and 60 short-answer questions. She has written 25 of the multiple-choice questions. What fraction of the total test has she written?
 a. $\frac{1}{4}$ b. $\frac{5}{8}$ c. $\frac{2}{3}$ d. $\frac{5}{12}$
- 147.) Malcolm's car gets $14\frac{1}{3}$ miles per gallon. It's $58\frac{1}{2}$ miles from his home to work. How many gallons does Malcolm's car use on the way to work?
 a. $2\frac{9}{10}$ gallons b. $3\frac{1}{16}$ gallons c. $4\frac{7}{86}$ gallons d. $5\frac{3}{8}$ gallons

- 148.) Felicia needs 168 six-inch fabric squares to make a quilt top. She has 150 squares. What fraction of the total does she still need?
 a. $25/28$ b. $9/84$ c. $5/28$ d. $3/28$
- 149.) Roger wants to paint his living room ceiling red. His ceiling is $14\frac{1}{2}$ feet by $12\frac{1}{3}$ feet. One gallon of paint will cover 90 square feet. How many gallons of paint will he need?
 a. 1 gallon b. 2 gallons c. 3 gallons d. 4 gallons
- 150.) The Garcias had $\frac{2}{5}$ of last night's meat loaf left over after dinner. Today, Uncle Jorge ate $\frac{1}{4}$ of these leftovers. How much of the original meat loaf is left?
 a. $\frac{3}{4}$ b. $\frac{3}{10}$ c. $\frac{3}{20}$ d. $\frac{3}{5}$
- 151.) Meryl ordered a claw hammer, four drill bits, a work light, a large clamp, two screwdrivers, seven toggle bolts, 16 two-penny nails, three paintbrushes, and a 48-inch level from a mail order house. So far, she has received the hammer, three drill bits, the level, one screwdriver, the clamp, and all the two-penny nails. What fraction of her order has she received?
 a. $\frac{1}{32}$ b. $\frac{16}{23}$ c. $\frac{23}{36}$ d. $\frac{36}{23}$
- 152.) Lu makes \$7.75 an hour. He worked $38\frac{1}{5}$ hours last week. How much money did he earn?
 a. \$592.10 b. \$296.05 c. \$775.00 d. \$380.25
- 153.) A lasagna recipe calls for $3\frac{1}{2}$ pounds of noodles. How many pounds of noodles are needed to make $\frac{1}{3}$ of a recipe?
 a. 1 pound b. $1\frac{1}{2}$ pounds c. $\frac{5}{6}$ pound d. $1\frac{1}{6}$ pounds
- 154.) A lasagna recipe requires $1\frac{1}{2}$ pounds of cheese. Approximately how many lasagnas can be made from a $20\frac{1}{3}$ pound block of cheese?
 a. $13\frac{1}{2}$ recipes b. $20\frac{1}{3}$ recipes c. $10\frac{1}{5}$ recipes d. $25\frac{1}{4}$ recipes
- 155.) For health reasons, Amie wants to drink eight glasses of water a day. He's already had six glasses. What fraction of eight glasses does Amie have left to drink?
 a. $\frac{1}{8}$ b. $\frac{1}{6}$ c. $\frac{1}{4}$ d. $\frac{1}{3}$
- 156.) A mini grocery store has a sale of Php 6435, Php 6927, Php 6855, Php 7230 and Php 6562 for 5 consecutive months. How much sale must he have in the sixth month so that he gets an average sale of Php 6500?
 a. Php 4991 b. Php 5991 c. Php 6001 d. Php 6991
- 157.) Average age of 7 family members is 75 years. But average age of 6 of them is 74 years 6 months. What is the age of the 7th family member?
 a. 75.5 b. 78 c. 68 d. 80
- 158.) The average weight of A, B and C is 45 kg. If the average weight of A and B be 40 kg and that of B and C be 43 kg, then the weight of B is:
 a. 17 kg b. 20 kg c. 26 kg d. 31 kg
- 159.) What is the distance covered by vehicle travelling for 4 and a half hours at the rate of 60 km per hour?
 a. 270 km b. 130 km c. 89.33 km d. 13.33 km

- 160.) 0.2 is to 0.4 as 0.3 is to ____?
 a. 0.009 b. 0.0009 c. 0.09 d. 0.9 e. 9.0
- 161.) Successive discounts of 10% and 30% are equivalent to what single discount?
 a. 37 % b. 40 % c. 30 % d. 35 %

Read the following to answer questions 158 and 159.

Different temperature in a day

- 6 am 32 degrees
- 7 am 33 degrees
- 8 am 35 degrees
- 9 am 35.7 degrees
- 10 am 35.9 degrees
- 11 am. 36 degrees
- 12 pm 37 degrees
- 1 pm 37.2 degrees
- 2 pm 38 degrees
- 3 pm 36 degrees
- 4 pm 34 degrees

- 162.) What is the average degrees between 9am to 2 pm? _____
- 163.) What is the average degrees between 2pm to 4pm? _____
- 164.) If $1 \times 10 = 9$, $2 \times 10 = 18$, $3 \times 10 = 27$, then what is $8 \times 10 = ?$
 A. 36 B. 72 C. 78 D. 52
- 165.) 2.) $83 : 25 :: 92 : \underline{\hspace{1cm}}?$
 A. 44 B. 49 C. 40 D. 63
- 166.) 3.) $72 : 18 :: 56 : \underline{\hspace{1cm}}?$
 A. 24 B. 22 C. 20 D. 16
- 167.) 4.) $2 : 12 :: 8 : \underline{\hspace{1cm}}?$
 A. 18 B. 128 C. 396 D. 576
- 168.) 5.) $12 : 72 :: 8 : \underline{\hspace{1cm}}?$
 A. 0 B. 32 C. 36 D. 38
- 169.) The sum of the smaller number, square of the middle number and the larger number of the three consecutive even numbers is ten multiplied by the sum of the two consecutive odd numbers. What is product of the smaller even number and larger odd number?

- 170.) PEMDAS: $12 - 12 \div 6 \times 2 + 2 = \underline{\hspace{1cm}}?$
 a. 10 b. 2 c. 9 d. 13 e. none of these

- 171.) A pipe can empty a tank in 40 minutes. A second pipe with diameter twice as much as that of the first is also attached with the tank to empty it. The two pipe together can empty the tank in:
 a. 8 Minutes b. 40/3 Minutes c. 30 Minutes d. 38 Minutes
- 172.) The average rate of an employee walking is 1680 meters/hour. If the distance of his office from his house is 700 meters, what will be the latest time that he can leave his house to be able to reach his office at exactly 7:45 am?

- 173.) A messenger travels at 20 km per hour was sent to a pick a letter 10 km away. If this messenger left at 8:30 rested for 10 mnts along the way, what time will he be back?

- 174.) An employee drives a car at 30 km per hour from his residence reached his office at 8:00 am. If he drives at 7:50 am, how far is his office from his residence?

- 175.) A chairman has an appointment at 9:00 am in a nearby province. If he travels at 40 km per hour, he will arrive at 8:00 am. If he drives at 30 km per hour, he will not arrive until 8:45 am. How far away is the province?

- 176.) Mr. Reyes left his home at 7:00 am, drives his car at 50 km/hr and rested for half an hour. What time will he reached Abra which is 600 km away?

- 177.) $-2 \times -2 =$ ____
 a. 4 b. -4 c. 0 d. 1 e. None of these
- 178.) $3 \times -3 =$ ____
 a. -9 b. 9 c. 6 d. 0 e. None of these
- 179.) $-4 \times (-2^2) =$ ____
 a. 16 b. -16 c. 64 d. -8 e. None of these
- 180.) $5^2 \times (-5)^2 =$ ____
 a. 625 b. -625 c. 25 d. -25 e. None of these
- 181.) $(-4)^3 =$ ____
 a. -64 b. 64 c. -12 d. 12 e. None of these
- 182.) $(-4^2) =$ ____
 a. -16 b. 16 c. -8 d. 8 e. None of these
- 183.) (-7^2) is the same as $(-7)^2$ ____ a. False b. True
- 184.) $-4 \times -9 =$ ____
 a. 36 b. -36 c. 13 d. -13 e. None of these

- 185.) $-2^2 \times (-3)^2 = \underline{\hspace{2cm}}$
 a. -36 b. 36 c. 6 d. 13 e. None of these
- 186.) $100^0 \times (-4^2) = \underline{\hspace{2cm}}$
 a. -16 b. 16 c. 17 d. 0 e. None of these
- 187.) Which of the following has the smallest value?
 a. $\frac{3}{5}$ b. $\frac{8}{15}$ c. $\frac{17}{30}$ d. $\frac{2}{3}$
- 188.) If each of the following represents the diameter of a circle, which is the smallest diameter?
 a. $\frac{17}{20}$ inches b. $\frac{3}{4}$ inches c. $\frac{5}{6}$ inches d. $\frac{7}{10}$ inches
- 189.) What is the reciprocal of $3\frac{7}{8}$?
 a. $\frac{31}{8}$ b. $\frac{8}{31}$ c. $\frac{8}{21}$ d. $-\frac{31}{8}$
- 190.) What is the reciprocal of $3\frac{3}{4}$?
 a. $\frac{4}{15}$ b. $\frac{15}{4}$ c. $\frac{14}{5}$ d. $\frac{5}{14}$
- 191.) Change $\frac{160}{40}$ to whole number?
 a. 16 b. 10 c. 8 d. 4
- 192.) Change this improper fraction to a mixed number: $\frac{31}{3}$
 a. 10 b. $10\frac{1}{3}$ c. $10\frac{1}{2}$ d. $11\frac{1}{3}$
- 193.) Change this mixed number to an improper fraction: $5\frac{1}{2}$
 a. $\frac{11}{2}$ b. $\frac{5}{1}$ c. $\frac{7}{2}$ d. $\frac{5}{2}$
- 194.) $\frac{3}{5} - \frac{1}{4} = \underline{\hspace{2cm}}$ a. 2 b. $\frac{1}{10}$ c. $\frac{3}{4}$ d. $\frac{7}{20}$
- 195.) Which of the following is an improper fraction?
 a. $\frac{22}{60}$ b. $\frac{66}{22}$ c. $\frac{90}{100}$ d. $\frac{1000}{2600}$
- 196.) Mario has finished 35 out of 45 of his test questions. Which of the following fractions of the test does he have left?
 a. $\frac{2}{9}$ b. $\frac{7}{9}$ c. $\frac{4}{5}$ d. $\frac{3}{5}$
- 197.) $10 \div 2 \times 5 = \underline{\hspace{2cm}}$ a. 25 b. 1
- 198.) $15 - 5 + 30 \div 5 \times 6 =$
 A. 46 B. 9 C. 11 D. 48
- 199.) $(-5^2) + (-5)^2 = \underline{\hspace{2cm}}$
 A. 0 B. -50 C. 50
- 200.) $\frac{3}{4}\%$ is equivalent to what?
 A. 0.75% B. 75% C. 0.75 D. 75

REFERENCES:

www.learnatest.com 1001 Math Problems 2nd edition for most Q&As
 Grade 4, 5, 6 textbooks for Order of Operations and Rounding off
 and other unidentified reviewers shared by PCSRFA members

This is 100% FREE.... FREE.... FREE.... NOT FOR SALE..... shared for FREE by: Leonalyn Mutia Tayone

ANSWERS with link for tutorial VIDEOS:

1. D. The hundredth is the second digit to the right of the decimal point. Because the third decimal is 6, the second is rounded up to 4.

2. D. The farther to the right the non-zero digits are, the smaller the number. Forty three thousandths is greater than 43 ten-thousandths.

3. C. Common errors include **a**, subtracting instead of adding; or **d**, not lining up the decimal points correctly.

4. C. If you line up the decimal points properly, you don't even have to do the subtraction to see that none of the other answers is even close to the correct value.

5. A. To evaluate this type of division problem, you need to move each decimal point four spaces to the right and then bring that point straight up into the dividend, or answer. If you got choice **c**, you divided 0.8758 by 2.9.

YOUTUBE link: <https://youtu.be/9BZZu8A6TYM>

6. B. $195.6 \div 7.2$ yields a repeating decimal, 27.1666666..., which, rounded up to the nearest hundredth, is 27.17.

7. C. align the decimal points.

8. A. 31.75.

9. D. 1.734 basic subtraction problem with decimals.

10. B. The correct answer has only two decimal places: 96.32.

11. C. Since there are two decimal places in each number you are multiplying, you need a total of four decimal places in the answer, 0.2646.

12. C. This is a mixed decimal. The whole number, 6, is to the left of the decimal point. The hundredths place is the second digit to the right of the decimal point.

13. D. The hundredths place is two digits to the right of the decimal point. The 9 is in the tenths place; the 0 is in the thousandths place; the 2 is in the ten-thousandths place.

14. A. 0.7 is the correct answer. Choice **b** is rounded up instead of down; choice **c** is rounded to the nearest hundredths place; and choice **d** is rounded to the nearest whole number.

15. A. In **b**, the 9 is in the hundredths place. In **c**, it is in the tenths place; in **d**, the ten-thousandths place.

YOUTUBE link: <https://youtu.be/5AtHaSfVKFg>

16. C. 1.8.

17. A. be careful to align the decimal points.

18. B. You need four digits to the right of the decimal point.

19. C. keep the decimal values straight. Divide as usual, and then bring the decimal point straight up into the answer in order to get 39.4.

20. B. Think of 145.29 as 145.290, and then line up the decimal points and add the numbers.

YOUTUBE link: <https://youtu.be/9T8aTVh6cO8>

21. D. You can rule out **a** and **c** because the 7 in the thousandths place indicates subtraction rather than addition. You would get answer **b** only if you added 8 and 9 incorrectly.

22. C. This is a simple subtraction problem, as long as the decimals are lined up correctly.

23. C. The solution to this problem lies in knowing that 1002 is equal to 100×100 , or 10,000.

Next, you must multiply $10,000 \times 2.75$ to arrive at 27,500.

24. D. This is a simple division problem with decimals.

25. C. This is a simple multiplication problem with decimals.

YOUTUBE link: <https://youtu.be/9T8aTVh6cO8>

26. c. $10 \times 10 \times 10 = 1,000$. $1,000 \times 7.25 = 7,250$.

27. d. $11 \times 0.032 = 0.352$.

28. b. The last digit has to be a 3, which rules out **c**. You can rule out **a** and **d** because of their place value.

29. a. -0.15 is less than -0.02, the smallest number in the range.

30. c. The seven is three places to the right of the decimal, which is the thousandths place.

31. a. Choice **b** can easily be ruled out because the 0 in the tenths place is less than the 7 in all the other choices. Choices **c** and **d** can be ruled out because the digits in the hundredths place are less than 2.

32. a. Because there are zeros in both the tenths and hundredths places the other choices are all greater than choice **a**.

33. b. The second zero to the right of the decimal point is in the hundredths place. Because the next digit, 9, is greater than 5 round up from 0 to 1.

34. b. First arrange the numbers in a column so that the decimal points are aligned. Then add. The sum 45.726 is then rounded to 45.7 because the 2 in the hundredths place is less than 5.

35. c. 91.9857.

YOUTUBE link: <https://youtu.be/gLm57Mug5yE>

36. B. 1.48.

37. C. The equation to be used is $(70T + 60T) = 325.75$, or $130T = 325.75$; $T = 2.5$.

38. C. Since \$3.20 is the sale price, add \$.75 to \$3.20 to find the original price. The result is \$3.95.

39. D. $1.42 + 1.89 = 3.31$ liters.

40. A. To subtract, write the first number as 17.80

YOUTUBE link: https://youtu.be/AN-ZfoKi_qI

41. D. $10.5 \div 0.5 = 21$

42. D. $5 \frac{3}{4} \times 3 = 23 \frac{3}{4} \times 3 = 69 \frac{3}{4} = 17 \frac{3}{4}$

43. A. $1 \frac{17}{48}$ Just separately add both and get the difference. Watch the video for details.

44. C. 22 feet Try all choices: $22 \div 5.5 = 4$

45. D. \$8,000.... $7500 \times 16 \div 15 = 8,000$

46. D. 90,000... $54,000 \times 5 \div 3 = 90,000$

47. C. $1/6$... $\frac{1}{4} \times 2 \div 3 = 2 \div 12 = 1/6$

48. C. 16gal... $14 \times 8 \div 7 = 16$

YOUTUBE link:

<https://www.youtube.com/watch?v=uqLdg5p-pHw>

49. B.

$1061/8 \times 5/2 = 5305/16 = 331 \frac{9}{16}$

YOUTUBE link: <https://youtu.be/wlj0ChbpbT4>

50. C. $2+1+1.33 = 4.33$

YOUTUBE link: <https://youtu.be/cEep3dsBOY4>

51. C $35.25 \div 4 = 8.81$

YOUTUBE link: <https://youtu.be/WiMeeMISaxk>

52. C $1.5 \div 600 = 0.0025$

YOUTUBE link: <https://youtu.be/gmnDdfLYDpA>

53. E $(4a+4b) - (3a-3b) = a + 7b$

YOUTUBE link: <https://youtu.be/aEVpoyBIICY>

54. C. 381

$[360+365+370+385+400+405]/6 = 380.83 \rightarrow 381$

55. A. As is clear from the graph, the total marks obtained in periodical exams, go on increasing. Since, the maximum marks for all the periodical exams are the same; it implies that the percentage of marks also goes on increasing.

Thus, in none of the periodical exams, there is a fall in percentage of marks compared to the previous exam.

56. B. $405/360 = 1.125 \times 100\% = 112.5\%$

YOUTUBE link: <https://youtu.be/mFeJRuggis>

57. 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:
 $(36,000,000 \times 0.265) = 9,540,000$, which is approximately 9,500,000

YOUTUBE link: <https://youtu.be/1ZW4EtG1Q2E>

58. D $(20 + 12.5)/(10 + 17.5) = 32.5/27.5$
 $= (32 \frac{1}{2})/(27 \frac{1}{2})$
 $= (65/2)/(55/2)$
 $= 65/55$
 $= 13/11$
 $0 = 13:11$

59. D 12.5% vs. 17.5%

$12.5\% + 12.5\% x = 17.5\%$

$12.5\% x = 5\%$

$x = 40\%$

YOUTUBE link: <https://youtu.be/cmrRb6vZkmg>

60. E. 2,500..... $(51-1)^2 = 50^2 = 2500$

61. C. 204

$n \times 2 + 32 = 440$

$n \times 2 = 440 - 32$

$n \times 2 = 408$

$n = 408/2$

$n = 204$

YOUTUBE link: <https://youtu.be/Gm8iCjnAlb0>

62. A. 80%

Solution#1:

$100\% - 15\% = 85\% \times 800 = 680$

$680 \div 850 = 0.8 \times 100\% = 80\%$

Solution#2:

Given:

850 = TOTAL applicants

800 = met the requirements

15% of 800 = unable to take the exam

Q: what % of ALL applicants took the written exam

15% of 800 =

$0.15 \times 800 = 120$ unable to take the exam

$800 - 120 = 680$ took the exam

N% of 850 = 680

$N\% \times 850 = 680$

$N\% = 680 \div 850$

$N\% = 0.8$

$N = 0.8 \times 100\%$

$N = 80\%$

Ans: 80% took the written exam out of all applicants.

YOUTUBE link:

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

63. B. 84.... $21 \times 8/2 = 84$

YOUTUBE link: <https://youtu.be/Xkbk1swdBX0>

64. A. 10

Liza's age = 26

Riza's age = 2

Years to come....

Liza's age = 26 + X

Riza's age = 2+X

Liza's age = 3 × Riza's age

$$26+X = 3(2+X)$$

$$26+X = 6+3X$$

$$26-6 = 3X-X$$

$$20 = 2X$$

$$20/2 = X$$

$$10 = X$$

YOUTUBE link:

<https://www.youtube.com/watch?v=ek5eCrSafkE>

You need to REVIEW Exponents on Negative base if you think the following are wrong:

65. A -28

$$(99)^0 - (-2)^2 + (-3)^2 - (-4)^2 =$$

$$1 - 4 + (-9) - 16 =$$

$$- 3 + (-9) - 16 = -28$$

66. B -19

$$(100)^0 + (-4^2) - 2^2 = 1 + (-16) - 4 = -19$$

YOUTUBE link: <https://youtu.be/WgK85g7rV7I>

67. C. 0.009

$$\sqrt{0.000081} = \sqrt{81/1,000,000}$$

$$= \sqrt{9^2/(1000^2)} = 9/1000 = 0.009$$

68. C. 0.05

$$\sqrt{0.0025} = \sqrt{25/10000}$$

$$= \sqrt{5^2/100^2} = 5/100 = 0.05$$

YOUTUBE link: https://youtu.be/GHgcAw_hp2o

69. D. 3750

$$(20/100)(30/100)X = 225$$

$$(6/100)X = 225$$

$$X = 225(100)/6 = 3750$$

70. C. 1000

$$(10/10000)N = 1$$

$$(1/1000)N = 1$$

$$N = 1000$$

YOUTUBE link: <https://youtu.be/RbGHyUuZPxM>

71. C. 10.... $(7 + 8 + 10 + 15)/4 = 10$

72. A. 24.... $(22 + 18 + 10 + 38 + 32 + 24)/6 = 24$

YOUTUBE link: <https://youtu.be/HjQdSrOKWcQ>

73. D. 5

$$45 = 5 \times 9 \rightarrow 9 \text{ (product twins brother's age)}$$

74. D. 16

$$256 = 16 \times 16 \rightarrow 16 \text{ (product of twins brother's age)}$$

YOUTUBE link:

<https://www.youtube.com/watch?v=ks3iP13ElgQ>

75. A. 8%

$$(16.20 - 15.00)/15 = 1.20/150 \times 100 = 8\%$$

76. D. 5%

$$(7.61/152.20) \times 100 = 5\%$$

YOUTUBE link:

<https://www.youtube.com/watch?v=-vBQk7-IWuo>

77. B. $64 \div 4 = 16 \times 2 = 32$

78. D. $25 - 24 + 4 + 2 \times 0 = 5$

YOUTUBE link:

<https://www.youtube.com/watch?v=KfyXhnOgQpU&t=327s>

79. A. 14

YOUTUBE link:

<https://www.youtube.com/watch?v=op4HIH0YzIw&t=130s>

80. C. 480

81. B. 16

YOUTUBE link:

<https://www.youtube.com/watch?v=3Y085JJrbXQ&t=15s>

82. A. 1/2

YOUTUBE link:

<https://www.youtube.com/watch?v=6ZrdO3TIWbs&t=2s>

83. C. 12%

$$(12,005 - 9,800) \div (8 - 5)$$

$$2,205 \div 3 = 735 \text{ (interest per year)}$$

$$12,005 - (735 \times 8) = 6,125$$

$$9,800 - (735 \times 5) = 6,125 \text{ (principal amt.)}$$

$$735/6,125 = 12\%$$

YOUTUBE link: <https://youtu.be/UHCTAiHqKdk>

84. B. 4

$$2P = P(1.2)^n$$

$$2 = 1.2^n$$

Applying log on both side....

$$\log(2) = n \times \log(1.2)$$

$$n = \log(2)/\log(1.2)$$

$$n = 3.8 \text{ to nearest year } 4$$

YOUTUBE link: <https://youtu.be/OKYrT2Tz9Sg>

85. D. $25/3 \dots 25 - 20 = 5 \times 125 = 625$

$100 - 25 = 75$; $625/75 = 25/3$ or $8 \frac{1}{3}$

YOUTUBE link:

<https://www.youtube.com/watch?v=coci2yq6iWU&t=205s>

86. C. 2500

$(3100 + 1900)/2 = 2500$

YOUTUBE link:

<https://www.youtube.com/watch?v=pcD9PxdrSa4>

87 to 94: CDEBC – CAD

Here's the general rule for rounding:

If the number you are rounding is followed by 5, 6, 7, 8, or 9, round the number up.

If the number you are rounding is followed by 0, 1, 2, 3, or 4, round the number down.... meaning keep the number.

YOUTUBE link:

<https://www.youtube.com/watch?v=uj8ezlY65aY>

95. C. $10,000 \rightarrow 25/0.0025 = 10,000$

YOUTUBE link:

<https://www.youtube.com/watch?v=V7wJfSDKe78&t=97s>

96. B. Add the numbers together = 34.47.

97. D. Add \$15.75 to \$67.98 and then subtract \$27.58. The answer is \$56.15.

98. C. First, add the cost of the wallpaper and carpet, which is \$701.99. Subtract that from \$768.56. The difference is \$66.57.

99. A. 100 pounds is four times 25 pounds, so the cost is \$3.59 times 4, or \$14.36.

100. C. Divide \$71 by 4 to get \$17.75.

YOUTUBE link: <https://youtu.be/iJwrPJrhe7A>

101. b. To solve this problem, find the number of gallons of water missing from each tank ($\frac{1}{3}$ from Tank A, $\frac{3}{5}$ from Tank B), and then multiply by the number of gallons each tank holds when full (555 for Tank A; 680 for Tank B):

$\frac{1}{3} \times 555 = 185$ for Tank A; $\frac{3}{5} \times 680 = 408$ for Tank B.

Now add the number of gallons missing from both tanks to get the number of gallons needed to fill them:

$185 + 408 = 593$.

YOUTUBE link: <https://youtu.be/w4CyCboSlw8>

102. a. This is a multi-step problem. First, determine how many pieces of pizza have been eaten. 8 pieces ($\frac{8}{9}$) of the first pizza have been eaten; 6 pieces ($\frac{6}{9}$) of the 2nd pizza have been eaten; 7 pieces ($\frac{7}{9}$) of the 3rd pizza have been eaten. Add the eaten pieces; $8 + 6 + 7 = 21$. Since there are 27 pieces of pizza in all, 6 pieces are left, or $\frac{2}{27}$.

Reduce the fraction: $\frac{6}{27} = \frac{2}{9}$

YOUTUBE link: <https://youtu.be/gpMApo6R6zw>

103. C. 7 hours

$4 = x/105$; $4(105) = x$; 420 mins or 7 hours

YOUTUBE link: <https://youtu.be/ftjfM3wp7pk>

104. A $4 \frac{1}{6}$ minutes

$\frac{5}{6} \frac{1}{5}$

$= \frac{6}{25}$

$= 4 \frac{1}{6}$

YOUTUBE link: <https://youtu.be/CL711JiiBm4>

105. B. $3 \frac{7}{8}$ ounces

$(10 \frac{2}{8} + 9 \frac{1}{8})/5$

$19 \frac{3}{8} / 5$

$155/8 \times \frac{1}{5}$

$31/8$

$3 \frac{7}{8}$ ounces

YOUTUBE link: <https://youtu.be/hrgD-gEUy20>

106. B. $\frac{1}{24} \dots \frac{1}{2}$ of $\frac{1}{12} = \frac{1}{24}$

YOUTUBE link: <https://youtu.be/2Cv2GFi8GPE>

107. B $7(60) + \frac{1}{6}(60) = 420 + 10 = 430$ mins

108. A $3 \frac{1}{2} \div \frac{1}{4} = \frac{7}{2} \times 4 = 7 \times 2 = 14$ laps

YOUTUBE link: <https://youtu.be/JoTgFABR9Ng>

109. C $10 \frac{1}{4}$ quarts. Just add them all

$3 \frac{2}{4} + 2 \frac{3}{4} + 4 = 9 \frac{5}{4} = 10 \frac{1}{4}$ quarts

110. C 152 ounces

$19/2 \times 16 = 19 \times 8 = 152$ ounces

YOUTUBE link: <https://youtu.be/l4InCj-wcF4>

111. D. 120 pounds $\rightarrow 15(8) = 120$

YOUTUBE link:

<https://www.youtube.com/watch?v=5tw87TNfIAE>

112. D. $5 \frac{1}{6}$ bags per minute

$15 \frac{1}{2} \div 3 = \frac{31}{2} \div \frac{3}{1} = \frac{31}{2} \times \frac{1}{3} = \frac{31}{6}$ or $5 \frac{1}{6}$

YOUTUBE link:

<https://www.youtube.com/watch?v=m8kZzs8QuBA&t=39s>

113. D. $1 \frac{1}{3}$ miles

$\frac{16}{3} \times \frac{1}{4} = \frac{4}{3}$ or $1 \frac{1}{3}$ miles

YOUTUBE link:

https://www.youtube.com/watch?v=JqfJw_xQ1S0

114. A. $16 \frac{5}{8}$

$23 \frac{1}{8} - 6 \frac{1}{2} = 23.125 - 6.5 = 16.625$ or $16 \frac{5}{8}$

YOUTUBE link: <https://www.youtube.com/watch?v=w-Kve29iYbM>

115. A $\frac{3}{4} - \frac{2}{3} = \frac{(9-8)}{12} = \frac{1}{12}$

YOUTUBE link: <https://youtu.be/tyybriN02Aw>

116. A $(31.36/5.70) = 5.50$

117. B. $31.36 - 24.23 = \text{Php } 7.13$ millions.

118. A. $(2/5.7) \times 31.36 = 11$

119. D. It can be seen that the FDI in 1996 more than doubles over that of 1995. No other year is close to that rate of growth.

120. A. $5.7+10.15+12.16+10.22+24.23+31.36=93.82$ billion.

YOUTUBE link: <https://youtu.be/BDrnH3lpJr0>

121 to 125: BBCDD

YOUTUBE link: https://youtu.be/uOtZC_ApvSQ

126 to 130: BBACB

YOUTUBE link:

<https://www.youtube.com/watch?v=hR0mvHx7HB4>

131 to 140: DACCD - BDBBA

YOUTUBE link:

https://www.youtube.com/watch?v=zEmob-P_fvc

141 to 145: ACBAD

YOUTUBE link: <https://youtu.be/WbsFf1DdgwU>

146 to 150: ACDBB

YOUTUBE link: <https://youtu.be/vgoxqZOLZpU>

151 to 155: CBDAC

YOUTUBE link:

<https://www.youtube.com/watch?v=bTfvUxi6lsE>

156. A $\text{Php } 4991$

$6,500 - 6,435 = 65$

$6,500 - 6,927 = -427$

$6,500 - 6,855 = -355$

$6,500 - 7,230 = -730$

$6,500 - 6,562 = -62$

$\text{Php } 6,500 - \text{Php } 1,509 = \text{Php } 4,991$

YOUTUBE link: <https://youtu.be/fIF498xQHlk>

157. B. $\dots 7(75) - 6(149/2) = 525 - 447 = 78$

YOUTUBE link: <https://youtu.be/thQmnrB7rSs>

158. D.... $(80+86)-(45 \times 3) = 31$

YOUTUBE link: <https://youtu.be/TOFvZLwP4kg>

159. A. $\dots 60 \times 4.5 = 270$

YOUTUBE link:

<https://www.youtube.com/watch?v=TXSaTqJV28U&t=2s>

160. D. 0.9

YOUTUBE link:

<https://www.youtube.com/watch?v=TXSaTqJV28U&t=2s>

161. A. 37%

$(0.1+0.3)-(0.1 \times 0.3) = 0.4-0.03 = 37\%$

YOUTUBE link:

<https://www.youtube.com/watch?v=4q2uiKkP0rg>

162. 36.525 or 36.53 degrees

163. 36 degrees

YOUTUBE link: <https://youtu.be/LeqCeSfdft8>

164 to 168: BBBAB

YOUTUBE link: https://youtu.be/eeJGu6_BeHk

169. 304

Let n be the EVEN smaller number

The sum of $\dots \rightarrow "+"$ mag add tayo ng mga

the smaller number, $\dots \rightarrow "n"$

square of the middle number $\dots \rightarrow "(n+2)^2"$

and the larger number of the three consecutive even

numbers $\dots \rightarrow "n+4"$

is $\dots \rightarrow "="$

ten multiplied by $\dots \rightarrow "10 \times"$

the sum of the two consecutive odd numbers.

$\dots \rightarrow (n+1)+(n+3)$

Combine muna natin:

$n+(n+2)^2 + n+4=10[(n+1)+(n+3)]$

$n+n^2+4n+4+n+4=10[2n+4]$

$n^2+6n+8 = 20n+40$

$n^2 = 20n+40-6n-8$

$n^2 = 14n+32$

$n^2-14n-32 = 0$

$(n+2)(n-16)$

$n = 16$ smaller number

$n+3 = 19$ largwr odd number

What is product of the smaller even number and larger odd number?

$16 \times 19 = 304$

YOUTUBE link:

<https://www.youtube.com/watch?v=PWCBJtzZqRc&t=288s>

170. A. 10 (Find out why 10 is the correct answer)

YOUTUBE link:

<https://www.youtube.com/watch?v=fgmMu8g8Ril&t=231s>

171. A.

Ratio of diameter $A/B = 1/2$ Ratio of water flow $A/B = 1/4$

Capacity is $40 \frac{4}{40} + \frac{1}{40} = \frac{1}{t} 4 + 1 = \frac{40}{t} 5 = \frac{40}{t} t = \frac{40}{5}$

$= 8$ mins

YOUTUBE link:

<https://www.youtube.com/watch?v=edlcSzcJaZ4&t=29s>

or search this: "Empty a tank with Two PIPES leonalyn"

172. 7:20Am
173. 9:40
174. 5km
175. 90km
176. 7:30pm
YOUTUBE link:
<https://www.youtube.com/watch?v=n1LckR8QX6I>

177 to 186: AAAAA – AAAAA
YOUTUBE link: <https://youtu.be/KdV0U8vQFMo>

187 to 191: BDBAD
192 to 196: BADBA
YOUTUBE link:
<https://www.youtube.com/watch?v=5RBpnV29058&t=251s>

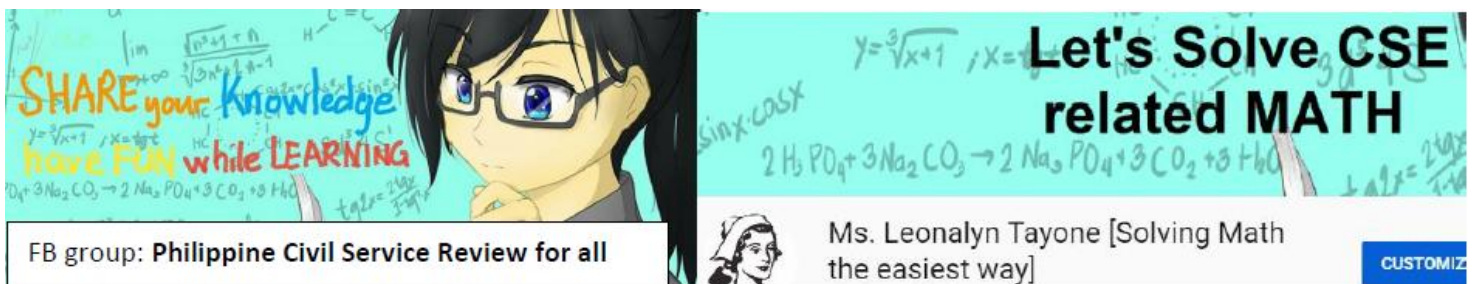
197 to 200: AAAA (Review PEMDAS and Law of Exponent on negative base for you to understand why all As)
YOUTUBE link: <https://youtu.be/fgmMu8g8Ril>

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