



## For any questions or clarification, please contact me.

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

- 1.)  $7 + 3 =$   
a. 4                      b. 8                      c. 9                      d. 10
- 2.)  $9 - 2 =$   
a. 7                      b. 8                      c. 6                      d. 5
- 3.)  $8 \div 2 =$   
a. 6                      b. 4                      c. 5                      d. 7
- 4.)  $3 \times 3 =$   
a. 6                      b. 7                      c. 8                      d. 9
- 5.)  $54 - 17 =$   
a. 37                      b. 39                      c. 41                      d. 43
- 6.)  $62 + 7 =$   
a. 64                      b. 68                      c. 69                      d. 70
- 7.)  $25 + 16 =$   
a. 37                      b. 41                      c. 45                      d. 51
- 8.)  $23 + 22 =$   
a. 45                      b. 55                      c. 61                      d. 62
- 9.)  $39 - 18 =$   
a. 7                      b. 11                      c. 16                      d. 21
- 10.)  $36,785 - 188 =$   
a. 35,697                      b. 36,497                      c. 36,597                      d. 37,007
- 11.)  $72 + 98 - 17 =$   
a. 143                      b. 153                      c. 163                      d. 170                      e. none of the above
- 12.)  $376 - 360 + 337 =$   
a. 663                      b. 553                      c. 453                      d. 353                      e. none of the above
- 13.)  $444 + 332 - 216 =$   
a. 312                      b. 450                      c. 560                      d. 612                      e. none of the above

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- 14.)  $2,710 + 4,370 - 400 =$   
a. 6,780   b. 6,680   c. 6,580   d. 6,480   e. none of the above
- 15.)  $7,777 - 3,443 + 1,173 =$   
a. 5,507   b. 5,407   c. 5,307   d. 5,207   e. none of the above
- 16.)  $|7| =$   
a. -7   b. 0.7   c. 7   d. 17
- 17.)  $(25 + 17)(64 - 49) =$   
a. 57   b. 63   c. 570   d. 630
- 18.)  $42 \div 6 =$   
a. 8   b. 7   c. 6   d. 5
- 19.)  $292 \times 50 =$   
a. 14,600   b. 14,500   c. 10,500   d. 1,450
- 20.)  $500 \times 65 =$   
a. 30,500   b. 32,500   c. 35,000   d. 35,500
- 21.)  $2,273 \times 4 =$   
a. 9,092   b. 8,982   c. 8,892   d. 8,882
- 22.) What is the value of  $43,254 \div 8$ , rounded to the nearest whole number?  
a. 5,000   b. 5,400   c. 5,406   d. 5,407
- 23.)  $|-9| =$   
a. -9   b. -8   c. 0   d. 9
- 24.)  $703 \times 365 =$   
a. 67,595   b. 255,695   c. 256,595   d. 263,595
- 25.)  $2,850 \div 190 =$   
a. 15   b. 16   c. 105   d. 150
- 26.)  $62,035 \div 5 =$   
a. 1,247   b. 12,470   c. 12,407   d. 13,610
- 27.) Estimate the value of  $6,302 \div 63$ .  
a. 1   b. 10   c. 100   d. 1,000
- 28.)  $4,563 \times 45 =$   
a. 205,335   b. 206,665   c. 207,305   d. 206,335
- 29.)  $12 \times (84 - 5) - (3 \times 54) =$   
a. 786   b. 796   c. 841   d. 54,000
- 30.)  $(2 + 4) \times 8 =$   
a. 84   b. 64   c. 48   d. 32

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31.)  $(14 \times 7) + 12 =$

- a. 98                      b. 266                      c. 110

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- d. 100                      e. none of the above

32.)  $(667 \times 2) + 133 =$

- a. 1,467                      b. 1,307                      c. 1,267                      d. 1,117

33.)  $(403 \times 163) - 678 =$

- a. 11,003                      b. 34,772                      c. 65,011                      d. 67,020

34.)  $(500 \div 20) + 76 =$

- a. 221                      b. 201                      c. 121                      d. 101                      e. none of the above

35.)  $604 - 204 \div 2 =$

- a. 502                      b. 301                      c. 201                      d. 101                      e. none of the above

36.)  $604 - (202 \div 2) =$

- a. 201                      b. 302                      c. 402                      d. 503

37.)  $37 \times 60 \times 3 =$

- a. 3,660                      b. 4,990                      c. 5,760                      d. 6,660

38.)  $12 \times (9 \times 4) =$

- a. 432                      b. 336                      c. 108                      d. 72

39.) Which of the following expressions are equal to 40,503?

- a.  $400 + 50 + 3$                       b.  $4000 + 500 + 3$                       c.  $40,000 + 50 + 3$                       d.  $40,000 + 500 + 3$

40.) Which of the following choices is divisible by both 7 and 8?

- a. 42                      b. 78                      c. 112                      d. 128

41.) Which of the following numbers is represented by the prime factors  $2 \times 3 \times 7$ ?

- a. 21                      b. 42                      c. 84                      d. 237

42.) 184 is evenly divisible by

- a. 46                      b. 43                      c. 41                      d. 40

43.) 4 pounds 14 ounces - 3 pounds 12 ounces =

- a. 2 pounds 2 ounces  
b. 1 pound 12 ounces  
c. 1 pound 2 ounces  
d. 14 ounces

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44.) 3 hours 20 minutes - 1 hour 48 minutes =

- a. 5 hours 8 minutes  
b. 4 hours 8 minutes  
c. 2 hours 28 minutes  
d. 1 hour 32 minutes

45.) The average of 54, 61, 70, and 75 is

- a. 55                      b. 62                      c. 65                      d. 68

46.)  $52,830 \div 9 =$

- a. 5,870                      b. 5,820                      c. 5,826                      d. 5,871

- 47.) 2 feet 4 inches + 4 feet 8 inches =  
 a. 6 feet 8 inches      b. 7 feet      c. 7 feet 12 inches      d. 8 feet
- 48.) 1 hour 20 minutes + 3 hours 30 minutes =  
 a. 4 hours      b. 4 hours 20 minutes      c. 4 hours 50 minutes      d. 5 hours
- 49.) What is the estimated product when 157 and 817 are rounded to the nearest hundred and multiplied?  
 a. 160,000      b. 180,000      c. 16,000      d. 80,000
- 50.)  $(-12) + 4 =$   
 a. zero      b.  $-4$       c.  $-8$       d.  $-16$
- 51.)  $2 \frac{1}{4} \div \frac{2}{3} =$   
 a.  $\frac{8}{27}$       b.  $1 \frac{1}{2}$       c.  $3 \frac{3}{8}$       d.  $3 \frac{1}{2}$
- 52.)  $\frac{2}{3} \div \frac{5}{12} =$   
 a.  $1 \frac{3}{5}$       b.  $1 \frac{5}{18}$       c.  $1 \frac{7}{36}$       d.  $1 \frac{5}{6}$
- 53.)  $4 \times \frac{1}{3} =$   
 a.  $1 \frac{1}{3}$       b.  $1 \frac{1}{2}$       c.  $2 \frac{1}{4}$       d.  $2 \frac{3}{4}$
- 54.)  $6 \times \frac{2}{3} =$   
 a.  $\frac{1}{9}$       b.  $\frac{2}{3}$       c.  $2 \frac{2}{3}$       d. 4
- 55.)  $\frac{1}{4} \div 2 \frac{4}{7} =$   
 a.  $\frac{2}{7}$       b.  $\frac{7}{72}$       c.  $1 \frac{2}{7}$       d.  $\frac{9}{14}$
- 56.)  $2 \frac{5}{8} \div \frac{1}{3} =$   
 a.  $8 \frac{1}{3}$       b.  $7 \frac{7}{8}$       c.  $5 \frac{11}{24}$       d.  $\frac{7}{8}$
- 57.)  $1 \frac{1}{2} \div 2 \frac{1}{4} =$   
 a.  $\frac{2}{3}$       b.  $1 \frac{1}{2}$       c.  $2 \frac{3}{8}$       d.  $2 \frac{1}{8}$
- 58.)  $2 \frac{1}{3} \times 5 \frac{1}{2} \times \frac{3}{11} =$   
 a.  $3 \frac{1}{2}$       b.  $7 \frac{1}{2}$       c.  $10 \frac{1}{22}$       d.  $10 \frac{1}{6}$
- 59.)  $7 \frac{3}{5} \div \frac{1}{4} =$   
 a.  $24 \frac{2}{7}$       b.  $27 \frac{3}{8}$       c.  $30 \frac{2}{5}$       d.  $33 \frac{1}{2}$
- 60.)  $\frac{3}{4} \times 1 \frac{1}{6} =$   
 a.  $1 \frac{1}{7}$       b.  $1 \frac{1}{8}$       c.  $\frac{7}{8}$       d.  $2 \frac{1}{10}$
61.  $-\frac{5}{3} - \frac{1}{3} =$   
 a.  $\frac{4}{3}$       b.  $-\frac{4}{3}$       c. 2      d.  $-2$
62.  $\frac{7}{8} \times \frac{1}{4} =$   
 a.  $4 \frac{1}{2}$       b.  $\frac{7}{32}$       c.  $3 \frac{1}{8}$       d.  $\frac{2}{7}$
- 63.)  $7 \div \frac{3}{8} =$   
 a.  $18 \frac{2}{3}$       b.  $12 \frac{3}{8}$       c.  $14 \frac{5}{6}$       d.  $10 \frac{4}{5}$

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64.)  $6\frac{2}{9} - \frac{1}{6} =$

a.  $6\frac{1}{18}$

b.  $6\frac{5}{27}$

c.  $6\frac{1}{3}$

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d.  $5\frac{8}{9}$

65.)  $9\frac{3}{7} + 4\frac{2}{5} =$

a.  $13\frac{5}{12}$

b.  $13\frac{3}{4}$

c.  $13\frac{29}{35}$

d.  $13\frac{37}{52}$

66.)  $3\frac{5}{6} \times 4\frac{2}{3} =$

a.  $17\frac{8}{9}$

b.  $12\frac{7}{18}$

c.  $16\frac{2}{3}$

d.  $13\frac{3}{5}$

67.) Which of the following is between  $\frac{1}{3}$  and  $\frac{1}{4}$ ?

a.  $\frac{1}{5}$

b.  $\frac{2}{3}$

c.  $\frac{2}{5}$

d.  $\frac{2}{7}$

68.) Change  $2\frac{1}{4}$  to a mixed number.

a.  $4\frac{1}{2}$

b.  $5\frac{1}{4}$

c.  $5\frac{1}{2}$

d.  $5\frac{3}{4}$

69.) Which of the following is the equivalent of  $\frac{13}{25}$ ?

a. 0.38

b. 0.4

c. 0.48

d. 0.52

70.) Which of the following has the greatest value?

a.  $\frac{7}{8}$

b.  $\frac{3}{4}$

c.  $\frac{2}{3}$

d.  $\frac{5}{6}$

71.) Which of the following has the smallest value?

a.  $\frac{3}{5}$

b.  $\frac{8}{15}$

c.  $\frac{17}{30}$

d.  $\frac{2}{3}$

72.) 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

73.) What is the reciprocal of  $3\frac{7}{8}$ ?

a.  $\frac{31}{8}$

b.  $\frac{8}{31}$

c.  $\frac{8}{21}$

d.  $-\frac{31}{8}$

74.) What is the reciprocal of  $3\frac{3}{4}$ ?

a.  $\frac{4}{15}$

b.  $\frac{15}{4}$

c.  $\frac{14}{5}$

d.  $\frac{5}{14}$

75.) Change  $\frac{160}{40}$  to whole number?

a. 16

b. 10

c. 8

d. 4

76.) Change this improper fraction to a mixed number:  $\frac{31}{3}$

a. 10

b.  $10\frac{1}{3}$

c.  $10\frac{1}{2}$

d.  $11\frac{1}{3}$

77.) 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.  $\frac{5}{2}$

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78.)  $\frac{3}{5} - \frac{1}{4} =$

a. 2

b.  $\frac{1}{10}$

c.  $\frac{3}{4}$

d.  $\frac{7}{20}$

79.) Which of the following is an improper fraction?

a.  $\frac{22}{60}$

b.  $\frac{66}{22}$

c.  $\frac{90}{100}$

d.  $\frac{1000}{2600}$

80.) 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.  $\frac{3}{5}$

- 81.)  $2+4-8 = \underline{\quad}$ ?  
 a. 2                      b. -2                      c. 14                      d. none of the above
- 82.)  $10-3+2 = \underline{\quad}$ ?  
 a. 5                      b. 9                      c. 15                      d. none of the above
- 83.)  $7+3-4+8 = \underline{\quad}$ ?  
 a. -2                      b. 14                      c. 16                      d. none of the above
- 84.)  $9+2\times 0-3 = \underline{\quad}$ ?  
 a. -3                      b. 6                      c. 0                      d. none of the above
- 85.)  $8-1\times 0+5 = \underline{\quad}$ ?  
 a. 3                      b. 13                      c. 5                      d. none of the above
- 86.)  $8\div 2\times 4+(8\div 2\times 4) = \underline{\quad}$ ?  
 a. 2                      b. 32                      c. 17                      d. none of the above
- 87.)  $(12\div 3\times 2)+(4\times 2\div 4) = \underline{\quad}$ ?  
 a. 4                      b. 10                      c. 16                      d. none of the above
- 88.)  $1/2 \div 1/2$  is the same as  $1\div 2\div 1\div 2$ .  
 a. True                      b. False
- 89.)  $4 \div 1/2$  is the same as  $4\div 1\div 2$ .  
 a. True                      b. False
- 90.)  $(14+8-8\times 2\div 4)+(6-2+10\div 2\times 5)$   
 a. 21                      b. 47                      c. 23                      d. none of the above
- 91.) How many inches are there in 4 feet?  
 a. 12 inches                      b. 36 inches                      c. 48 inches                      d. 52 inches
- 92.) Dave is 46 years old, twice as old as Rajeeve. How old is Rajeeve?  
 a. 30 years old                      b. 28 years old                      c. 23 years old                      d. 18 years old
- 93.) Salesperson Rita drives 2,052 miles in 6 days, stopping at 2 towns each day. How many miles does she average between stops?  
 a. 171 miles                      b. 342 miles                      c. 684 miles                      d. 1,026 miles
- 94.) During the last week of track training, Shoshanna achieves the following times in seconds: 66, 57, 54, 54, 64, 59, and 59. Her three best times this week are averaged for her final score on the course. What is her final score?  
 a. 57 seconds                      b. 55 seconds                      c. 59 seconds                      d. 61 seconds
- 95.) A train must travel to a certain town in six days. The town is 3,450 miles away. How many miles must the train average each day to reach its destination?  
 a. 500 miles                      b. 525 miles                      c. 550 miles                      d. 575 miles
- 96.) On a certain day, the nurses at a hospital worked the following number of hours: Nurse Howard worked 8 hours; Nurse Pease worked 10 hours; Nurse Campbell worked 9 hours; Nurse Grace worked 8 hours; Nurse McCarthy worked 7 hours; and Nurse Murphy worked 12 hours. What is the average number of hours worked per nurse on this day?  
 a. 7                      b. 8                      c. 9                      d. 10

- 97.) A car uses 16 gallons of gas to travel 448 miles. How many miles per gallon does the car get?
- 22 miles per gallon
  - 24 miles per gallon
  - 26 miles per gallon
  - 28 miles per gallon
- 98.) A floppy disk shows 827,036 bytes free and 629,352 bytes used. If you delete a file of size 542,159 bytes and create a new file of size 489,986 bytes, how many free bytes will the floppy disk have?
- 577,179 free bytes
  - 681,525 free bytes
  - 774,863 free bytes
  - 879,209 free bytes
- 99.) A family's gas and electricity bill averages \$80 a month for seven months of the year and \$20 a month for the rest of the year. If the family's bills were averaged over the entire year, what would the monthly bill be?
- \$45
  - \$50
  - \$55
  - \$60
- 100.) If a vehicle is driven 22 miles on Monday, 25 miles on Tuesday, and 19 miles on Wednesday, what is the average number of miles driven each day?
- 19 miles
  - 21 miles
  - 22 miles
  - 23 miles
- 101.) A piece of gauze 3 feet 4 inches long was divided in 5 equal parts. How long was each part?
- 1 foot 2 inches
  - 10 inches
  - 8 inches
  - 6 inches
- 102.) Each sprinkler head on an athletic field sprays water at an average of 16 gallons per minute. If 5 sprinkler heads are flowing at the same time, how many gallons of water will be released in 10 minutes?
- 80 gallons
  - 160 gallons
  - 800 gallons
  - 1650 gallons
- 103.) Use the following data to answer this question:  
Lefty keeps track of the length of each fish that he catches. Below are the lengths in inches of the fish that he caught one day: 12, 13, 8, 10, 8, 9, 17  
What is the median fish length that Lefty caught that day?
- 8 inches
  - 10 inches
  - 11 inches
  - 12 inches
- 104.) If it takes two workers, working separately but at the same speed, 2 hours and 40 minutes to complete a particular task, about how long will it take one worker, working at the same speed, to complete the same task alone?
- 1 hour 20 minutes
  - 4 hours 40 minutes
  - 5 hours
  - 5 hours 20 minutes
- 105.) A snack machine accepts only quarters. Candy bars cost 25¢, packages of peanuts cost 75¢, and cans of cola cost 50¢. How many quarters are needed to buy two candy bars, one package of peanuts, and one can of cola?
- 8 quarters
  - 7 quarters
  - 6 quarters
  - 5 quarters

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- 106.) A street sign reads "Loading Zone 15 Minutes." If a truck pulls into this zone at 11:46 A.M., by what time must it leave?  
a. 11:59 A.M.    b. 12:01 P.M.    c. 12:03 P.M.    d. 12:06 P.M.
- 107.) An elevator sign reads "Maximum weight 600 pounds." Which of the following may ride the elevator?  
a. three people: one weighing 198 pounds, one weighing 185 pounds, one weighing 200 pounds  
b. one person weighing 142 pounds with a load weighing 500 pounds  
c. one person weighing 165 pounds with a load weighing 503 pounds  
d. three people: one weighing 210 pounds, one weighing 101 pounds, one weighing 298 pounds
- 108.) Darlene was hired to teach 3 identical math courses, which entailed being present in the classroom 48 hours altogether. At \$35 per class hour, how much did Darlene earn for teaching 1 course?  
a. \$105    b. \$560    c. \$840    d. \$1,680
- 109.) Carmella and Mariah got summer jobs at the ice cream shop and were supposed to work 15 hours per week each for 8 weeks. During that time, Mariah was ill for one week and Carmella took her shifts. How many hours did Carmella work during the 8 weeks?  
a. 120 hours    b. 135 hours    c. 150 hours    d. 185 hours
- 110.) 400 pounds of cod are shipped to Jerry's Fish Market packed into 20-pound crates. How many crates are needed for the shipment?  
a. 80 crates    b. 40 crates    c. 20 crates    d. 10 crates
- 111.) Which of the following is a translation of the statement "Twice the sum of six and four"?  
a.  $2 + 6 + 4$     b.  $2 \times 6 + 4$     c.  $2(6 + 4)$     d.  $(2 \times 6) \times 4$
- 112.) Rashaard went fishing six days in the month of June. He caught 11, 4, 0, 5, 4, and 6 fish respectively. On the days that Rashaard fished, what was his average catch?  
a. 4 fish    b. 5 fish    c. 6 fish    d. 7 fish

**Answer question 113 on the basis of the following paragraph.** NOT FOR SALE...shared for FREE by LeonalynTayone

Basic cable television service, which includes 16 channels, costs \$15 a month. The initial labor fee to install the service is \$25. A \$65 deposit is required but will be refunded within two years if the customer's bills are paid in full. Other cable services may be added to the basic service: the movie channel service is \$9.40 a month; the news channels are \$7.50 a month; the arts channels are \$5.00 a month; the sports channels are \$4.80 a month.

- 113.) A customer's first bill after having cable television installed totaled \$112.50. This customer chose basic cable and one additional cable service. Which additional service was chosen?  
a. the news channels  
b. the movie channels  
c. the arts channels  
d. the sports channels
- 114.) An Army food supply truck can carry 3 tons. A breakfast ration weighs 12 ounces, and the other two daily meals weigh 18 ounces each. Assuming each soldier gets 3 meals per day, on a ten-day trip, how many soldiers can be supplied by one truck?  
a. 100 soldiers    b. 150 soldiers    c. 200 soldiers    d. 320 soldiers

115. Meda arrived at work at 8:14 A.M. and Kirstin arrived at 9:12 A.M. How long had Meda been at work when Kirstin got there?  
 a. 1 hour 8 minutes      b. 1 hour 2 minutes      c. 58 minutes      d. 30 minutes
116. A clerk can process 26 forms per hour. If 5,600 forms must be processed in an 8-hour day, how many clerks must you hire for that day?  
 a. 24 clerks      b. 25 clerks      c. 26 clerks      d. 27 clerks
117. How many different meals can be ordered from a restaurant if there is 3 choices of soup, 5 choices of entrées and 2 choices of dessert if a meal consists of a soup, entrée, and dessert?  
 a. 10      b. 15      c. 30      d. 60
118. Which of the following best represents the following sentence? Rachel (R) had three apples and ate one.  
 a.  $R = 3 - 1$       b.  $3 - 2 = R$       c.  $R = 3 \times 2$       d.  $3R - 2$
119. A uniform requires 4 square yards of cloth. To produce uniforms for 84,720 troops, how much cloth is required?  
 a. 21,180 square yards  
 b. 21,880 square yards  
 c. 338,880 square yards  
 d. 340,880 square yards
120. Marty left his workplace at 5:16 P.M. on Thursday and returned at 7:58 A.M. on Friday. How much time elapsed between the time Marty left work on Thursday to the time he returned on Friday?  
 a. 2 hours 42 minutes  
 b. 13 hours 42 minutes  
 c. 14 hours 42 minutes  
 d. 14 hours 52 minutes
- 121.) Evaluate the expression:  $|-14| + -5 =$  NOT FOR SALE...shared for FREE by LeonalynTayone  
 a. -19      b. 19      c. 9      d. -9
- 122.) The cost of a certain type of fruit is displayed in the following:  
 Weight (in lbs) Cost (in dollars)  
 4 lbs ----- \$1.10  
 5 lbs ----- \$1.74  
 Based on the table, estimate the cost for 4 lbs. 8oz. of the same type of fruit.  
 a. \$1.24      b. \$1.32      c. \$1.35      d. \$1.42
- 123.) Larry buys three puppies at the Furry Friends Kennel for a total cost of \$70. Two of the puppies are on sale for \$15 apiece. How much does the third puppy cost?  
 a. \$55      b. \$40      c. \$30      d. \$25
- 124.) 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

- 125.) In a cashier contest, Maria packed  $15\frac{1}{2}$  bags of groceries in 3 minutes. How many bags did she average each minutes?
- $4\frac{1}{2}$  bags per minute
  - 5 bags per minute
  - $5\frac{1}{4}$  bags per minute
  - $5\frac{1}{6}$  bags per minute
- 126.) 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?
- $5\frac{1}{3}$  miles
  - $4\frac{1}{3}$  miles
  - $2\frac{1}{3}$  miles
  - $1\frac{1}{3}$  miles
- 127.) 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?
- $16\frac{5}{8}$  pounds
  - $16\frac{7}{8}$  pounds
  - $17\frac{1}{6}$  pounds
  - $17\frac{3}{4}$  pounds
- 128.) 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?
- $\frac{1}{12}$  cup
  - $\frac{1}{8}$  cup
  - $\frac{1}{6}$  cup
  - $\frac{1}{4}$  cup
- 129.) Successive discounts of 10% and 30% are equivalent to what single discount?
- 37
  - 40
  - 30
  - 35
  - none of the above
- 130.) A one fourth percent of a number is 25. What is the number?
- 100
  - 1,000
  - 10,000
  - 100,000
- 131.) In 4 years, Leah's mother will be twice Leah's age today. If Leah will be 30 years old, then how old is Leah's mother now?
- 56
  - 52
  - 48
  - 58
- 132.) Joy is 6yrs older than Jhed. When they compared their ages, they found out that 3yrs from now, the sum of their ages would be 46. How old is Jhed now?
- 11
  - 17
  - 20
  - 24
  - 26
- 133.) The length of a rectangle is 8 meters more than twice its width. The perimeter is 112 meters. Find its area.
- 16m
  - 24m
  - $28\text{m}^2$
  - $640\text{m}^2$
- 134.) A train travels 300 miles in 6 hours. If it was traveling at a constant speed the entire time, what was the speed of the train?
- 50 miles per hour
  - 60 miles per hour
  - 180 miles per hour
  - 1800 miles per hour
135. If Rita can run around the block 5 times in 20 minutes, how many times can she run around the block in one hour?
- 10
  - 15
  - 50
  - 100
136. Which of the following number sentences is true?
- 4 feet > 3 feet
  - 7 feet < 6 feet
  - 5 feet > 6 feet
  - 3 feet < 2 feet

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137.) Which of the following is a prime number?

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- a. 6                      b. 9                      c. 11                      d. 27

138.) Which of the following is a translation of the following sentence? Salwa (S) is ten years older than Roland (R).

- a.  $10 + S = R$       b.  $S + R = 10$       c.  $R - 10 = S$       d.  $S = R + 10$

139.) How many ways can four students line up in a line, if the order matters?

- a. 4                      b. 8                      c. 16                      d. 24

140.) At the movies, Lucinda bought food for herself and her friend Rae, including: 1 box of popcorn to share at \$5 a box, 1 box of Junior Mints for each of them at \$2 a box, and 1 soft drink for each at \$3 apiece. Rae bought a ticket for each at \$7 apiece. Who spent the most money and by how much?

- a. Rae by \$3      b. Rae by \$7      c. Lucinda by \$1      d. Lucinda by \$2

141.) One colony of bats consumes 36 tons of mosquitoes per year. At that rate, how many pounds of mosquitoes does the same colony consume in a month?

- a. 36,000 pounds  
b. 12,000 pounds  
c. 6,000 pounds  
d. 3,000 pounds

142.) Which of the following answer choices is equivalent to  $10^4$ ?

- a.  $10 \times 10 \times 10 \times 10$       b.  $10 \times 4$       c.  $(10 + 4) \times 10$       d.  $10 + 4$

143.) How many acres are contained in a parcel 121 feet wide and 240 yards deep? (1 acre = 43,560 square feet)

- a. 1 acre      b. 1 1/2 acres      c. 2 acres      d. 2 1/2 acres

144.) 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

145.) A man travels a distance of 20 miles at 60miles per hour and then returns over the same route at 40 miles per hour. What is his average rate for the round trip in miles per hour?

- a. 45      b. 46      c. 47      d. 48      e. 50

146.) Roberta takes \$58 with her on a shopping trip to the mall. She spends \$18 on new shoes and another \$6 on lunch. How much money does she have left after these purchases?

- a. \$34      b. \$40      c. \$52      d. \$24

147.) On a four-day trip Carrie drove 135 miles the first day, 213 miles the second day, 159 miles the third day, and 189 miles the fourth day. Which of the following choices is the best approximation of the total miles Carrie drove during the trip?

- a. 600      b. 700      c. 400      d. 800

148.) While bowling in a tournament, Jake and his friends had the following scores:

- Jake 189
- Charles and Max each scored 120
- Terry 95

What was the total score for Jake and his friends at the tournament?

- a. 404      b. 504      c. 524      d. 526

- 149.) The drivers at G & G trucking must report the mileage on their trucks each week. The mileage reading of Ed's vehicle was 20,907 at the beginning of one week, and 21,053 at the end of the same week. What was the total number of miles driven by Ed that week?
- a. 46 miles                      b. 145 miles                      c. 146 miles                      d. 1046 miles
- 150.) In a downtown department store, Angelo finds a woman's handbag and turns it in to the clerk in the Lost and Found Department. The clerk estimates that the handbag is worth approximately \$150. Inside, she finds the following items:
- 1 leather makeup case valued at \$65
  - 1 vial of perfume, unopened, valued at \$75
  - 1 pair of earrings valued at \$150
  - Cash \$178
- The clerk is writing a report to be submitted along with the found property. What should she write as the total value of the found cash and property?
- a. \$468                      b. \$608                      c. \$618                      d. \$718
- 151.) In a Math test, eight students obtained the following scores: 10, 15, 12, 18, 16, 24, 12, 14. What is the median score?
- a. 14                      b. 14.5                      c. 15                      d. 15.5                      e. none of the above
- 152.) Find the least common multiple of 2, 5, 7
- a. 35                      b. 140                      c. 15                      d. 70                      e. none of the above
- 153.) A Nissan car travelling at a rate of 70km per hour leaves the house 2 hours after a Kia car has left and overtakes it in 5 hours. At what rate was the Kia car travelling?
- a. 30 kph                      b. 50 kph                      c. 20 kph                      d. 40 kph                      e. none of the above
- 154.) The altitude of a triangle is 5 meters and the base is 20 meters. What is the area of the triangle?
- a. 50 sqm                      b. 60 sqm                      c. 50 sqm                      d. 24 sqm
- 155.) The measure of an angle is 25 more than its supplement. What is the measure of the larger angle?
- a. 110.5 degrees                      b. 95.5 degrees                      c. 102.5 degrees                      d. 77.5 degrees                      e. none of the above
- 156.) In how many ways can 5 girls be seated in a row of 5 seats?
- a. 95                      b. 120                      c. 105                      d. 100                      e. none of the above
- 157.) What percent of 75 is 15?
- a. 20%                      b. 30%                      c. 38%                      d. 40%                      e. none of the above
- 158.) How long will it take A and B together to finish a job which can be done by A alone in 6 days and B alone in 3days.
- a. 2 1/2 days                      b. 2 days                      c. 3 days                      d. 3 1/2 days                      e. none of the above
- 159.) Mandaue Company manufactures beds. In its catalogue, a double bed is priced at P5000.00 less a discount to the trade of 20%. What will SM departments Store have to pay for the bed?
- a. P4,000.00                      b. P4,500.00                      c. P4,200.00                      d. P4,980.00                      e. none of the above

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- 160.) A receipt calls for 2 eggs for every cup of flour. If a head chef uses 28 cups of flour, how many eggs will he need?  
 a. 56 eggs      b. 14 eggs      c. 65 eggs      d. 55 eggs      e. none of the above
161. If a student has an average of 76 % on his first two tests and has an average of 85 % on the next four tests, what is the final average on all six tests?  
 a. 82. 0 %      b. 80. 5 %      c. 82. 5 %      d. 81. 3      e. none of the above
162. Simplify:  $6 - [3 - (-4) + 11 + 8]$   
 a. -26      b. 26      c. 20      d. -20      e. none of the above
163. Simplify:  $[(3x-12)/(3x)]$  divided by  $(x - 4)$   
 a.  $3x$       b.  $x$       c.  $x - 4$       d.  $1/x$       e. none of the above
- 164.) What are the prime factors of 120?  
 a.  $2 \times 2 \times 2 \times 6 \times 5$   
 b.  $2 \times 3 \times 4 \times 5$   
 c.  $2 \times 4 \times 3 \times 5$   
 d.  $2 \times 2 \times 2 \times 3 \times 5$
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- 165.) What is the least common multiple of 12 and 60?  
 a. 340      b. 120      c. 140      d. 360      e. none of the above
- 166.) The least common Multiple (LCM) of 2, 3 and 4 is \_\_\_\_\_.  
 a. 13      b. 24      c. 14      d. 12
- 167.) The sum of the sides of a polygon is the\_\_\_\_\_.  
 a. Area      b. legs      c. Volume      d. perimeter
- 168.) What is the total amount after adding interest of 8% on P10,000.00 for 3 years?  
 a. P12,400.00      b. P13,400.00      c. P11,000.00      d. P15,000.00
- 169.) The fraction halfway between  $3/7$  and  $4/7$  is\_\_\_\_\_.  
 a.  $1/2$       b.  $1/4$       c.  $1/3$       d.  $5/7$       e. none of the above
- 170.) A man sleeps 6 hours a day. What is the ratio of the time he is asleep to the time he is awake?  
 a. 1:6      b. 1:4      c. 1:3      d. 1:2
- 171.) A trash container, when empty, weighs 27 pounds. If this container is filled with a load of trash that weighs 108 pounds, what is the total weight of the container and its contents?  
 a. 81 pounds      b. 135 pounds      c. 145 pounds      d. 185 pounds
- 172.) Mr. James Rossen is just beginning a computer consulting firm and has purchased the following equipment:  
 ■ 3 telephone sets, each costing \$125  
 ■ 2 computers, each costing \$1300  
 ■ 2 computer monitors, each costing \$950  
 ■ 1 printer costing \$600  
 ■ 1 answering machine costing \$50  
 Mr. Rossen is reviewing his finances.What should he write as the total value of the equipment he has purchased so far?  
 a. \$3,025      b. \$5,400      c. \$5,525      d. \$6,525

173.) Mr. Richard Tupper is purchasing gifts for his family. So far he has purchased the following:

- 3 sweaters, each valued at \$68
- 1 computer game valued at \$75
- 2 bracelets, each valued at \$43

Later, he returned one of the bracelets for a full refund and received a \$10 rebate on the computer game. What is the total cost of the gifts after the refund and rebate?

- a. \$244                      b. \$312                      c. \$355                      d. \$365

174.) Department regulations require trash collection trucks to have transmission maintenance every 13,000 miles. Truck# B-17 last had maintenance on its transmission at 12,398 miles.

The mileage gauge now reads 22,003. How many more miles can the truck be driven before it must be brought in for transmission maintenance?

- a. 3,395 miles      b. 4,395 miles      c. 9,003 miles      d. 9,605 miles

175.) The city's bus system carries 1,200,000 people each day. How many people does the bus system carry each year? (1 year = 365 days)

- a. 3,288 people  
b. 32,880 people  
c. 43,800,000 people  
d. 438,000,000 people

176.) What is the next number in the series below? 3 16 6 12 12 8 \_\_\_

- a. 4                      b. 15                      c. 20                      d. 24

177.) Five people in Sonja's office are planning a party. Sonja will buy a loaf of French bread (\$3 a loaf) and a platter of cold cuts (\$23). Barbara will buy the soda (\$1 per person) and two boxes of crackers (\$2 per box). Mario and Rick will split the cost of two packages of Cheese Doodles (\$1 per package). Danica will supply a package of 5 paper plates (\$4 per package). How much more will Sonja spend than the rest of the office put together?

- a. \$14      b. \$13                      c. \$12                      d. \$11

178.) In the music department at a school, a music teacher counted the musical instruments and supplies in storage. There was:

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- 1 violin valued at \$1,200
- 2 violin bows, each valued at \$350
- 3 music stands, each valued at \$55
- 1 trumpet valued at \$235

In addition, there were a number of supplies totaling \$125 and some sheet music worth \$75. What was the total value of the musical supplies and instruments in storage?

- a. \$2,040                      b. \$2,500                      c. \$3,040                      d. \$3,500

179.) What is the value of the expression  $5(4^0)$ ?

- a. 0                      b. 1                      c. 5                      d. 20

180.) If a population of yeast cells grows from 10 to 320 in a period of 5 hours, what is the rate of growth?

- a. It doubles its numbers every hour.  
b. It triples its numbers every hour.  
c. It doubles its numbers every two hours.  
d. It triples its numbers every two hours.

181.) Number Analogy: 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

- 182.) Number Analogy:  $83 : 25 :: 92 : \underline{\quad}$ ?  
 a. 44                      b. 49                      c. 40                      d. 63
- 183.) Number Analogy:  $72 : 18 :: 56 : \underline{\quad}$ ?  
 a. 24                      b. 22                      c. 20                      d. 16
- 184.) Number Analogy:  $2 : 12 :: 8 : \underline{\quad}$ ?  
 a. 18                      b. 128                      c. 396                      d. 576
- 185.) Number Analogy:  $12 : 72 :: 8 : \underline{\quad}$ ?  
 a. 0                      b. 32                      c. 36                      d. 38
- 186.) Mylene is 4 years older than Sheila. In two years, the sum of their ages will be 84. How old are they now?  
 a. 20, 24                      b. 28, 34                      c. 34, 50                      d. 38, 42                      e. none of these
- 187.) A man is 25 years old, and his father is 85 years old. In how many years will the man be three times as old as his father?  
 a. 12 yrs                      b. 5 yrs                      c. 8 yrs                      d. 2 yrs                      e. none of these
- 188.) PEMDAS  $25 - 4 + 18 \div 3 \times 6 =$   
 a. 57                      b. 20                      c. 22                      d. 78                      e. none of these
- 189.) Nene and Nena are asked to clean a house. Nene can clean the house by herself in 6 hours and Nena can clean the house by herself in 8 hours. How long would it take to clean the house if they worked together?  
 a. 48hrs                      b.  $3 \frac{3}{7}$  hrs                      c.  $4 \frac{1}{2}$  hrs                      d. 7 hrs                      e. none of these
- 190.) What is  $\frac{1}{2}\%$  of 200?  
 a. 0.1                      b. 1                      c. 10                      d. 100                      e. none of these
- 191.) What percent of 100 is 200?  
 a. 2%                      b. 20%                      c. 200%                      d. 100%                      e. none of these
- 192.) What is the value of n?  $-4^2 \times -4^2 = -4^n$   
 a. 4                      b. 256                      c. -256                      d. -4                      e. none of these
- 193.) Two numbers are respectively 40% and 60% more than a third number. The ratio of the two numbers is?  
 a. 2 : 3                      b. 7 : 8                      c. 8 : 11                      d. 5 : 9                      e. none of these
- 194.) MIXTURE: A solution is made of water and pure lemon. If 73% of the solution is water, how many liters of pure lemon are in 20 liters of this solution?  
 a. 4                      b. 3.1                      c. 3.4                      d. 4.8                      e. none of these
- 195.) NUMBER SERIES  $(5 \div 1 \times 5), (15 \div 3 \times 5), (25 \div 5 \times 5), \underline{\quad}$   
 a. 25                      b. 35                      c. 7                      d. 1                      e. none of these
- 196.) A loaf of bread has 35 slices. Ann eats 8 slices, Betty eats 6 slices, Carl eats 5, and Derrick eats 9 slices. What fraction of the loaf is left?  
 a.  $\frac{2}{11}$                       b.  $\frac{1}{9}$                       c.  $\frac{2}{7}$                       d.  $\frac{1}{5}$

- 197.) Frances wants to run  $2\frac{1}{3}$  miles every day. Today she has gone  $\frac{7}{8}$  mile. How much farther does she have to go?  
 a.  $1\frac{11}{24}$  miles    b.  $1\frac{1}{3}$  miles    c.  $1\frac{41}{50}$  miles    d.  $1\frac{307}{308}$  miles
- 198.) Ribbon in a craft store costs \$.75 per yard. Vernon needs to buy  $7\frac{1}{3}$  yards. How much will it cost?  
 a. \$7.33    b. \$6.95    c. \$5.50    d. \$4.25
- 199.) Linda needs to read 14 pages for her History class, 26 pages for English, 12 pages for Civics, and 28 pages for Biology. She has read  $\frac{1}{6}$  of the entire number of pages. How many pages has she read?  
 a. 80 pages    b.  $13\frac{1}{3}$  pages    c.  $48\frac{1}{2}$  pages    d. 17 pages
- 200.) Ted has to write a  $5\frac{1}{2}$  page paper. He's finished  $3\frac{1}{3}$  pages. How many pages does he have left to write?  
 a.  $1\frac{3}{5}$  pages    b.  $1\frac{7}{8}$  pages    c.  $2\frac{2}{3}$  pages    d.  $2\frac{1}{6}$  pages
201. The number of red blood corpuscles in one cubic millimeter is about 5,000,000 and the number of white blood corpuscles in one cubic millimeter is about 8,000. What, then, is the ratio of white blood corpuscles to red blood corpuscles?  
 a. 1:625    b. 1:40    c. 4:10    d. 5:1,250
202. George has made a vow to jog for an average of one hour daily five days a week. He cut his workout short on Wednesday by 40 minutes but was able to make up 20 minutes on Thursday and 13 minutes on Friday. How many minutes of jogging did George lose for the week?  
 a. 20 minutes    b. 13 minutes    c. 7 minutes    d. 3 minutes
203. Which of the following is equivalent to  $2\sqrt{6}$ ?  
 a.  $\sqrt{24}$     b.  $6\sqrt{2}$     c.  $12\sqrt{2}$     d.  $\sqrt{2}$
204. Which of the following is an irrational number?  
 a. 0.333333...    b.  $\frac{1}{2}$     c. 10.489    d. 0.101101110...
205. Joni is 5 feet 11 inches tall and Pierre is 6 feet 5 inches tall. How much taller is Pierre than Joni?  
 a. 1 foot 7 inches    b. 1 foot    c. 7 inches    d. 6 inches
206. Marcia is 10 years older than Fred, who is 16. How old is Marcia?  
 a. 6 years old    b. 20 years old    c. 26 years old    d. 30 years old
207. Which of the following numbers can be divided evenly by 19?  
 a. 54    b. 63    c. 76    d. 82
208. Find the mode of the following set of numbers: 8 4 6 12 9 9 4 4  
 a. 4    b. 6    c. 7    d. 9
209. Emilio is 1 year 7 months old and Brooke is 2 years 8 months old. How much older is Brooke than Emilio?  
 a. 1 year 1 month    b. 2 years    c. 1 month    d. 1 year 2 months
210. 5th graders Kara and Rani both have lemonade stands. Kara sells her lemonade at 5 cents a glass and Rani sells hers at 7 cents a glass. Kara sold 17 glasses of lemonade today and Rani sold 14 glasses. Who made the most money and by what amount?  
 a. Kara, 13 cents    b. Rani, 13 cents    c. Kara, 85 cents    d. Rani, 98 cents

211. Land consisting of a quarter section is sold for \$1,850 per acre (1 quarter section = 160 acres). The total sale price is  
 a. \$296,000      b. \$592,000      c. \$1,184,000      d. \$1,850,000
212. The planet Pluto is estimated at a mean distance of 3,666 million miles from the sun. The planet Mars is estimated at a mean distance of 36 million miles from the sun. How much closer to the sun is Mars than Pluto?  
 a. 36,300,000 million miles  
 b. 36,300 million miles  
 c. 3,630 million miles  
 d. 363 million miles
213. A rectangular tract of land measures 860 feet by 560 feet. Approximately how many acres is this? (1 acre = 43,560 square feet)  
 a. 12.8 acres      b. 11.05 acres      c. 10.5 acres      d. 8.06 acres
214. A dormitory now houses 30 men and allows 42 square feet of space per man. If five more men are put into this dormitory, how much less space will each man have?  
 a. 5 square feet      b. 6 square feet      c. 7 square feet      d. 8 square feet
215. On a particular morning the temperature went up 1 degree every 2 hours. If the temperature was 53 degrees at 5 A.M., at what time was it 57 degrees?  
 a. 7 A.M.      b. 8 A.M.      c. 12 P.M.      d. 1 P.M.
216. What is the value of  $16^{(1/2)}$ ?  
 a. 2      b. 4      c. 8      d. 32
217. What is the median of the following group of numbers? 14 12 20 22 14 16  
 a. 12      b. 14      c. 15      d. 16
218.  $16\sqrt{2} - 4\sqrt{2} =$   
 a. 12      b.  $12\sqrt{2}$       c.  $12 - \sqrt{2}$       d. 20
219. Which of the following is equivalent to  $\sqrt{20}$ ?  
 a.  $2\sqrt{5}$       b.  $4\sqrt{5}$       c.  $10\sqrt{2}$       d. 20
220. Which of the following numbers is divisible by 6?  
 a. 232      b. 341      c. 546      d. 903
- 221.)  $56\frac{3}{8} - 10\frac{5}{6} =$   
 a.  $46\frac{1}{7}$       b.  $46\frac{13}{14}$       c.  $45\frac{1}{3}$       d.  $45\frac{13}{24}$
- 222.)  $-\frac{3}{10} \div -\frac{1}{5} =$   
 a.  $1\frac{1}{2}$       b.  $\frac{2}{3}$       c.  $-\frac{3}{50}$       d.  $\frac{3}{50}$
- 223.)  $40 \div 2\frac{1}{2} =$   
 a. 4      b. 16      c. 80      d. 100
- 224.)  $\frac{1}{3} \div \frac{2}{7} =$   
 a.  $2\frac{4}{5}$       b.  $1\frac{1}{6}$       c.  $2\frac{1}{7}$       d.  $1\frac{1}{5}$

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- 225.)  $7/8 - 3/5 =$   
 a.  $11/40$       b.  $1\ 1/3$       c.  $1/10$       d.  $1\ 19/40$
- 226.)  $4\ 3/5 + -1\ 2/5 =$   
 a.  $3\ 1/5$       b. 4      c.  $3\ 1/2$       d.  $5\ 1/5$
- 227.)  $76\ 1/2 + 11\ 5/6 =$   
 a.  $87\ 1/2$       b.  $88\ 1/3$       c.  $88\ 5/6$       d.  $89\ 1/6$
- 228.)  $20\ 5/7 - 15\ 1/7 =$   
 a.  $5\ 2/7$       b.  $5\ 3/7$       c.  $5\ 4/7$       d.  $5\ 6/7$
- 229.)  $43\ 2/3 + 36\ 3/9$   
 a. 100      b. 90      c. 80      d. 70
- 230.)  $5/8 - 1/3 =$   
 a.  $3\ 1/4$       b.  $1/6$       c.  $3\ 2/5$       d.  $7/24$
231.  $6/7 + 4/5 =$   
 a.  $25/44$       b.  $35/49$       c.  $14/33$       d.  $58/35$
- 232.)  $3/7 \times 7/3 =$   
 a.  $1\ 1/3$       b. 1      c.  $1/7$       d.  $1/21$
- 233.)  $-1/4 \div -1/8 =$   
 a.  $-1/2$       b.  $1/2$       c. 2      d. -2
- 234.)  $3\ 3/4 \times 4/5 =$   
 a.  $3/4$       b. 3      c.  $3\ 3/4$       d.  $4\ 11/16$
- 235.)  $5/8 \div 3 =$   
 a.  $5/24$       b.  $3/8$       c.  $1\ 7/8$       d.  $1/8$
- 236.)  $2\ 1/4 \div 2\ 4/7 =$   
 a.  $9/14$       b.  $7/8$       c.  $1\ 2/7$       d.  $5\ 11/14$
- 237.)  $3/10 \times 4/5 \times 1/2 =$   
 a.  $3/4$       b.  $12/25$       c.  $13/27$       d.  $3/25$
- 238.)  $1\ 1/2 \div 1\ 5/13 =$   
 a.  $1\ 3/10$       b.  $1\ 1/12$       c.  $2\ 1/13$       d.  $3\ 9/10$
- 239.)  $2\ 1/3 \times 1\ 1/14 \times 1\ 4/5 =$   
 a.  $1\ 7/18$       b.  $2\ 1/2$       c.  $3\ 6/7$       d.  $4\ 1/2$
- 240.)  $2/5 \times 3/7 =$   
 a.  $6/35$       b.  $14/15$       c.  $5/12$       d.  $29/35$
- 241.) 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

- 242.) 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
- 243.) 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
- 244.) 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
- 245.) 120 is what percent of 48?  
 a. 2.5%                      b. 250%                      c. 25%                      d. 40%
- 246.) 120% of what number is 72?  
 a. 144                      b. 600                      c. 14,400                      d. 60
- 247.) 10% of 300 is what number?  
 a. 3                      b. 0.3                      c. 30                      d. 300
- 248.) Two and one-half percent of what number is 88?  
 a. 3520                      b. 35,200                      c. 2.2                      d. 352
- 249.) 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
- 250.) 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

**REFERENCES:**

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

**My own simple TIPS on How to improve your MATH SKILLS**

There are a lot of ways in which you can improve you Math skills and this is just one of the things you can do to improve yourself when it comes to MATH. Pagpasensyahan nyo po ang video na ito kasi kung ano-ano nalang ang mga sinasabi ko pero ginawa ko po ito ng may halong pagmamahal sa magiging audience ko... in other word, SINCERE ba:

**VIDEOLink:** <https://www.youtube.com/watch?v=KbZ3iWPAdIY&t=203s>

**Or search on youtube: simple TIPS improve your MATH SKILLS leonalyn**

**Here are my simple TIPS:**

- 1.) LISTEN to your Math teacher. Review your school MATH books.
- 2.) ASK!!!! .... Kung meron kang hindi naintindihan, magtanong! Be brave to ask.
- 3.) PRACTICE! PRACTICE! PRACTICE! Make it a habit. Just enjoy what you do especially if you are determined to pass.
- 4.) Do not just memorize formulas. UNDERSTAND them.... if you work to truly understand the principles behind the formula, your understanding of math can become deeper and more productive.
- 5.) YOU CAN DO IT... Create good study habits. Your study habits have a huge influence on your success in MATH. And it's not just about the quantity of study time, it's about the quality.

ANSWERS with link for tutorial VIDEOS:

**1 to 5: DABDA**

**6 to 10: CBADC**

**11 to 15: BDCBA**

**16 to 20: CDBAB**

YOUTUBE link for tutorial video:

[https://www.youtube.com/watch?v=S\\_YfzwVQJAU&t=87s](https://www.youtube.com/watch?v=S_YfzwVQJAU&t=87s)  
or search this: "set#1 leonalyn"

**21 to 25: ADDCA**

**26 to 30: CCAAC**

YOUTUBE link for tutorial video:

[https://www.youtube.com/watch?v=hd8kD\\_k5\\_ww&t=307s](https://www.youtube.com/watch?v=hd8kD_k5_ww&t=307s)  
or search this: "set#2 leonalyn"

**31. c.** Perform the operation in parentheses first:

$14 \times 7 = 98$ , and then add 12 to get the answer, which is 110.

**32. a.** First multiply, then add. The correct answer is 1,467.

**33. c.** First multiply, then subtract. The correct answer is 65,011.

**34. d.** Divide first, then add. The correct answer is 101.

**35. a.** In spite of the sequence presented, in this problem you must divide first:  $204 \div 2 = 102$ .

Now subtract 102 from 604:  $604 - 102 = 502$ .

The correct answer is 502. When an expression involves more than one operation, you need to follow the correct order of operations:

- 1) Operations in Parentheses;
- 2) Exponents;
- 3) Multiplication and Division in order from left to right;
- 4) Addition and Subtraction in order from left to right.

A good device for remembering this order is saying: Please Excuse My Dear Aunt Sally.

**36. d.** Do the operation in parentheses first:

$202 \div 2 = 101$ ; then subtract the answer from 604:  $604 - 101 = 503$ .

**37. d.** Multiply twice. The correct answer is 6,660.

**38. a.** It is a good idea to develop the habit of always performing operations in parentheses first, even though in this case it doesn't matter because all the operations are multiplication.

Multiply  $9 \times 4 = 36$ , then multiply again:

$36 \times 12 = 432$ .

**39. d.** Use the place value of each of the non-zero numbers. The 4 is in the ten thousands place so it is equal to 40,000, the 5 is in the hundreds place so it is equal to 500, and the 3 is in the ones place so it is equal to 3;  $40,000 + 500 + 3 = 40,503$ .

**40. c.** 112 is divisible by both 7 and 8 because each can divide into 112 without a remainder;  $112 \div 7 = 16$  and  $112 \div 8 = 14$ .

Choice a is only divisible by 7, choice b is not divisible by either, and choice d is only divisible by 8.

YOUTUBE link for tutorial video:

<https://www.youtube.com/watch?v=Ez7NYelxQu4&t=8s>  
or search this: "set#3 leonalyn"

**41. b.** A prime number is a whole number whose only factors are 1 and itself. Two, three and seven are all prime numbers. The prime factors of a number are the prime numbers that multiply to equal that number. 2 times 3 times 7 is equal to 42.

**42. a.** 46 goes into 184 four times. The other choices cannot be divided evenly into 184.

**43. c.** Subtract the pounds first, then the ounces.

**44. d.** You must "borrow" 60 minutes from the 3 hours in order to be able to subtract.

**45. c.** Add the four numbers together to get 260, then divide by 4 to get 65.

**46. a.** If you got a different answer, you probably made an error in your division.

**47. b.** Add the feet first, then the inches:

$2 \text{ ft} + 4 \text{ ft} = 6 \text{ feet}$ ;  $4 \text{ inches} + 8 \text{ inches} = 12 \text{ inches}$

Convert 12 inches into 1 foot to get the correct answer  $6 \text{ feet} + 1 \text{ foot} = 7 \text{ feet}$ .

**48. c.** Add the hours first, then the minutes:

$1 \text{ hour} + 3 \text{ hours} = 4 \text{ hours}$ .

$20 \text{ minutes} + 30 \text{ minutes} = 50 \text{ minutes}$ .

Combine: 4 hours 50 minutes.

**49. a.** 157 is rounded to 200 and 817 is rounded to 800;  $200 \times 800 = 160,000$ .

\*meron na po tayong separate video on how to accurately round-off numbers based on legit references.

**50. c.** When adding negative numbers, follow this rule: If both numbers have different signs, subtract the smaller number from the larger.

The answer has the sign of the larger number.

Therefore, the above equation becomes:  $12 - (\text{not } +) 4 = 8$ . Since the larger number, 12, has a negative sign, the answer has a negative sign, so the answer is  $-8$ .

YOUTUBE link for tutorial video:

<https://www.youtube.com/watch?v=wohq244DPgs&t=5s>  
or search this: "set#4 leonalyn"

**51 to 55: CAADB**

**56 to 60: BAACC**

YOUTUBE link for tutorial video:

[https://www.youtube.com/watch?v=gaKXbvnU\\_B8](https://www.youtube.com/watch?v=gaKXbvnU_B8)  
or search this: "set#21 leonalyn"

**61 to 65: DBAAC****66 to 70: ADBDA**

YOUTUBE link for tutorial video:

<https://www.youtube.com/watch?v=kbJerxwubMM&t=521s>  
or search this: "set#22 leonalyn"

**71 to 75: BDBAD****76 to 80: BADBA**

YOUTUBE link for tutorial video:

<https://www.youtube.com/watch?v=5RBpnV29058&t=251s>  
or search this: "set#23 leonalyn"

**81 to 90: BBBB - BBBB**

YOUTUBE link for tutorial video:

<https://www.youtube.com/watch?v=-84t-duUKvc&t=37s>  
or search this: "[Basic MATH] PEMDAS leonalyn"

**91. c.** one foot = 12 inches

$$12 \times 4 = 48 \text{ inches.}$$

**92. c.**  $46 \div 2 = 23$ . Rajeeve is 23 years old.

**93. a.**  $2,052 \text{ miles} \div 6 \text{ days} = 342 \text{ miles per day}$   
 $342 \text{ miles per day} \div 2 \text{ stops} = 171 \text{ miles between stops}$

Another way:  $6 \times 2 = 12$

$$2052 \div 12 = 171 \text{ miles}$$

**94. b.** Shoshanna's three best (that is, lowest) times are 54, 54, and 57, which add up to 165.

Now divide to find the average of these times:

$$165 \div 3 = 55.$$

**95. d.** To find the average, divide the total number of miles, 3,450, by 6 days:

$$3,450 \text{ miles} \div 6 \text{ days} = 575 \text{ miles/day}$$

**96. c.** First find the total hours worked by all six nurses;  $8 + 10 + 9 + 8 + 7 + 12 = 54$ .

Then find the average by dividing the total hours by the number of nurses;  $54 \div 6 = 9$ .

**97. d.** Take the total number of miles and find the average by dividing:

$$448 \text{ miles} \div 16 \text{ gallons} = 28 \text{ miles per gallon}$$

**98. d.**  $827,036 \text{ bytes free} + 542,159 \text{ bytes freed when the document was deleted} = 1,369,195 \text{ bytes}$ ;

$1,369,195 \text{ bytes} - 489,986 \text{ bytes put into the new file} = 879,209 \text{ bytes left free.}$

**99. c.** First, multiply \$80 per month by 7 months = \$560. Next, multiply \$20 per month by the remaining 5 months = \$100.

Now find the average for the entire year.

Add the two amounts:  $\$560 + \$100 = \$660$ .

Then divide:  $\$660 \div 12 \text{ months in a year} = \$55$

**100. c.**

First, add the three numbers:  $22 + 25 + 19 = 66$ .

Now divide the sum by 3 to find the average:

$$66 \div 3 = 22.$$

YOUTUBE link for tutorial video:

<https://www.youtube.com/watch?v=sfHY3h-ZXkc&t=9s>  
or search this: "set#9 leonalyn"

**101. c.** First, convert feet to inches:

$$3 \text{ feet} = 3 \times 12 \text{ inches} = 36 \text{ inches.}$$

Now add 4 inches:

$$36 \text{ inches} + 4 \text{ inches} = 40 \text{ inches.}$$

Then do the final operation:

$$40 \text{ inches} \div 5 = 8 \text{ inches.}$$

**102. c.** Multiply  $16 \times 5$  to find out how many gallons all five sprinklers will release in one minute. Then multiply the result (80 gallons per minute) by the number of minutes (10) to get the entire amount released:  $80 \times 10 = 800$  gallons.

**103. b.** The median value is the middle value in the list when the numbers are arranged in ascending or descending order. In ascending order this list becomes 8, 8, 9, 10, 12, 13, 17. The middle number in this list is 10.

**104. d.** It will take one worker about twice as long to complete the task, so you must multiply the original hours and minutes times 2:

$$2 \text{ hours } 40 \text{ minutes} \times 2 = 4 \text{ hours } 80 \text{ minutes,}$$

which is equal to 5 hours 20 minutes.

**105. b.** Two candy bars require 2 quarters; one package of peanuts requires 3 quarters; one can of cola requires 2 quarters

—for a total of 7 quarters.

**106. b.** If it is 11:46 A.M., in 14 minutes it will be noon.

In 15 minutes, then, it will be 12:01 P.M.

**107. a.** To arrive at the answer quickly, begin by rounding off the numbers, and you will see that choice a is less than 600 pounds, whereas choices b, c, and d are all over 600 pounds.

**108. b.** Take the number of classroom hours and divide by the number of courses:

$$48 \div 3 = 16 \text{ hours per course}$$

Now multiply the number of hours taught for one course by the pay per hour:

$$16 \times \$35 = \$560$$

**109. b.** Carmella worked 15 hours per week for 8 weeks:  $15 \times 8 = 120$

In addition, she worked 15 hours for Mariah for one week, so:  $120 + 15 = 135$ .

**110. c.** Divide the amount of cod by the number of crates:  $400 \div 20 = 20$

YOUTUBE link for tutorial video:

[https://www.youtube.com/watch?v=\\_1ITv71Ddiw&t=88s](https://www.youtube.com/watch?v=_1ITv71Ddiw&t=88s)  
or search this: "set#10 leonalyn"

**111. c.** The word "Twice" tells you to multiply the quantity by two. In the second part of the statement, the word sum is a key word for addition. So "the sum of six and four" is translated to  $6 + 4$ .

Putting the statement together becomes  $2(6 + 4)$

**112. b.** The average is the sum divided by the number of observations:

$$(11 + 4 + 0 + 5 + 4 + 6) \div 6 = 5$$

**113. a.** The labor fee (\$25) plus the deposit (\$65) plus the basic service (\$15) equals \$105. The difference between the total bill, \$112.50, and \$105 is \$7.50, the cost of the news channels.

**114. c.** 3 tons = 6,000 lbs;

$$6,000 \text{ lbs} \times 16 \text{ oz per pound} = 96,000 \text{ oz}$$

that can be carried by the truck

The total weight of each daily ration is:

$$12 \text{ oz} + 18 \text{ oz} + 18 \text{ oz} = 48 \text{ oz per soldier per day;}$$

$$96,000 \div 48 = 2,000; 2,000 \div 10 \text{ days} = 200 \text{ soldiers supplied.}$$

**115. c.** Between 8:14 and 9:00, 46 minutes elapse, and between 9:00 and 9:12, 12 minutes elapse, so this is a simple addition problem:

$$46 + 12 = 58.$$

**116. d.** Begin by multiplying to find out how many forms one clerk can process in a day:

$$26 \text{ forms} \times 8 \text{ hours} = 208 \text{ forms per day per clerk.}$$

Now find the number of clerks needed by dividing:

$$5,600 \div 208 = 26.9. \text{ Since you can't hire } 0.9 \text{ of a clerk, you have to hire } 27 \text{ clerks for the day.}$$

**117. c.** The Counting Principle shows the number of ways an event can occur and tells you to take the total choices for each item and multiply them together;  $3 \times 5 \times 2 = 30$

**118. a.** This answer is in the correct order and is "translated" correctly:

Rachel had 😊 (=) 3 apples and ate (-) 1.

$$\text{Therefore: } R = 3 - 1$$

**119. c.** 84,720 troops  $\times$  4 square yards of cloth equals 338,880 square yards of cloth required.

**120. c.** From 5:16 P.M. to 7:16 A.M. the next day is 14 hours. An additional 42 minutes occurs between 7:16 A.M. and 7:58 A.M.;  $(58 - 16 = 42)$ .

YOUTUBE link for tutorial video:

<https://www.youtube.com/watch?v=yGOqbBq22AM&t=53s>  
or search this: "set#11 leonalyn"

**121. c.** The bars on either side of  $-14$  indicate the absolute value of  $-14$ . The absolute value of a number is its distance away from zero on a number line, and in this case, is 14.

$$\text{Therefore } 14 + -5 = 9$$

Since the signs are different, subtract and keep the sign of the larger number.

**122. d.** According to the table, a pound in weight makes a difference of \$0.64, or \$.04 per ounce over 4 pounds. Fruit that weighs 4 pounds 8 ounces will cost  $8 \times 0.04$  or \$0.32 more than fruit that costs 4 pounds. Therefore, the cost is  $\$1.10 + 0.32 = \$1.42$ .

**123. b.** To find the answer, begin by adding the cost of the two sale puppies:  $\$15 + \$15 = \$30$ .

Now subtract this amount from the total cost:

$$\$70 - \$30 = \$40 \text{ paid for the third puppy.}$$

YOUTUBE link for tutorial video:

Just watch item1,2,3

<https://www.youtube.com/watch?v=RQw5eUYuOxo>

or search this: "set#12 leonalyn"

**124. d**

YOUTUBE link for tutorial video:

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

or search this: "set#30 Q1 leonalyn"

**125. d**

YOUTUBE link for tutorial video:

<https://www.youtube.com/watch?v=m8kZzs8QuBA&t=14s>

or search this: "set#30 Q2 leonalyn"

**126. d**

YOUTUBE link for tutorial video:

[https://www.youtube.com/watch?v=JqfJw\\_xQ1S0&t=177s](https://www.youtube.com/watch?v=JqfJw_xQ1S0&t=177s)

or search this: "set#30 Q3 leonalyn"

**127. a**

YOUTUBE link for tutorial video:

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

or search this: "set#30 Q4 leonalyn"

**128. a**

YOUTUBE link for tutorial video:

<https://www.youtube.com/watch?v=tyybriN02Aw&t=35s>

or search this: "set#30 Q5 leonalyn"

**129. a**

YOUTUBE link for tutorial video:

<https://www.youtube.com/watch?v=4q2uiKkP0rg&t=81s>

or search this: "Successive discounts leonalyn"

**130. a**

YOUTUBE link for tutorial video:

<https://www.youtube.com/watch?v=V7wJfSDKe78&t=17s>

or search this: "One fourth percent of a number leonalyn"

**131. a**

YOUTUBE link for tutorial video:

<https://www.youtube.com/watch?v=9XxhqyO67e0&t=98s>

or search this: "In 4 years, Leah's mother leonalyn"

**132. b**

YOUTUBE link for tutorial video:

[https://www.youtube.com/watch?v=sIBbRFj0l\\_g&t=35s](https://www.youtube.com/watch?v=sIBbRFj0l_g&t=35s)

or search this: "Joy is 6yrs older than Jhed"

**133. d**

YOUTUBE link for tutorial video:

<https://www.youtube.com/watch?v=mq1JYAYWILM&t=248s>

or search this: "The length of a rectangle is 8m leonalyn"

**134. a.** rate = distance/rate,  
 $300/6 = 50$  miles per hour.

**135. b.** First, divide to determine the number of 20 minute segments there are in an hour:  $60 \div 20 = 3$ . Now multiply that number by the number of times Rita can circle the block:  $3 \times 5 = 15$ .

**136. a.** The symbol  $>$  means “greater than,” and the symbol  $<$  means “less than.” The only sentence that is correct is choice a: 4 feet is greater than 3 feet. The other choices are untrue.

\*\*\*watch the video para sa simpleng explanation na sana di nyo na makalimutan ang pagkakaiba nito.

**137. c.** A prime number is a number that has exactly two factors, 1 and itself. Each of the number choices has more than two factors except 11, whose only factors are 1 and 11.

**138. d.** If Salwa (S) is ten years older than Roland (R), then S is equal to  $R + 10$ . Therefore, the equation is  $S = R + 10$ .

**139. d.** If four students are lining up, then there are four choices of students for the first spot in line, three choices for the second, two choices for the third and one choice for the fourth spot. The Counting Principle tells you to take the possible choices and multiply them together;  
 $4 \times 3 \times 2 \times 1 = 24$ . This type of situation is also called a permutation, because the order matters.

**140. c.** First, simplify the problem:  
 $L = \$5 + \$4 + \$6 = \$15$ ;  
 $R = \$14$ .

Lucinda spent the most by \$1.  
 Don't forget that only the popcorn was shared; the other items must be multiplied by 2.

**141. c.** First, convert tons to pounds;  
 1 ton = 2,000 pounds;  
 36 tons (per year) = 72,000 pounds (per year);  
 1 yr = 12 mos, so the average number of pounds of mosquitos the colony of bats can consume in a month is:  $72,000 \div 12$ , or 6,000 pounds.

\*\*\*watch the video para sa ibang solution

**142. a.** In this question, 10 is the base and 4 is the exponent; 104 means 10 is used as a factor four times, or  $10 \times 10 \times 10 \times 10$ .

**143. c.** This is a three-step problem involving multiplication and division. First, change yards to feet:  
 $240 \text{ yards} \times 3 \text{ feet in a yard} = 720 \text{ feet}$ .  
 Now find the number of square feet in the parcel:  
 $121 \text{ feet} \times 720 \text{ feet} = 87,120 \text{ square feet}$ .  
 Now find the number of acres:  
 $87,120 \text{ sq ft} \div 43,560 \text{ sq ft in an acre} = 2 \text{ acres}$ .

YOUTUBE link for tutorial video:  
<https://www.youtube.com/watch?v=tWD0gOlzws&t=7s>  
 or search this: “set#15 leonalyn”

**144. a.**  
 Ratio of diameter  $A/B = 1/2$   
 Ratio of water flow  $A/B = 1/4$   
 Capacity is 40  
 $4/40 + 1/40 = 1/t$   
 $4 + 1 = 40/t$   
 $5 = 40/t$   
 $t = 40/5 = 8 \text{ mins}$

YOUTUBE link for tutorial video:  
<https://www.youtube.com/watch?v=edlcSzcJaZ4&t=29s>  
 or search this: “Empty a tank with Two PIPES leonalyn”

**145. d** When we are ask for AVERAGE RATE... it means,  
 TOTAL DISTANCE  $\div$  TOTAL TIME  
 Given: Distance = 20miles; So, back and forth =  $20 \times 2 = 40$   
 1way = 20miles at 60mph  
 Note: mph means rate  
 Miles = distance  
 Per = divide or over  
 Hour = time  
 Rate = distance/time  
 Rate  $\times$  time = distance  
 Time = distance/rate  
 1st:  $20\text{miles}/60\text{mph} = 1/3 \text{ hr} = 20\text{min}$   
 2nd:  $20\text{miles}/40\text{mph} = 1/2 \text{ hr} = 30\text{min}$   
 TOTAL TIME:  $1/3 + 1/2 =$   
 $2/6 + 3/6 = 5/6 \text{ hr}$   
 Or  $20\text{min} + 30\text{min} = 50\text{min}$   
 $50\text{min} = 5/6 \text{ hr}$   
 AVERAGE RATE  
 = TOTAL distance  $\div$  TOTAL time  
 =  $40\text{miles} \div 5/6 \text{ hr}$   
 =  $40 \div 5/6$   
 =  $40 \times 6/5$   
 =  $240/5$   
 = 48mph ✓

YOUTUBE link for tutorial video:  
[https://www.youtube.com/watch?v=xN\\_Jjn\\_-XIQ&t=36s](https://www.youtube.com/watch?v=xN_Jjn_-XIQ&t=36s)  
 or search this: “How to solve AVERAGE RATE leonalyn”

**146. a.** To answer this question, subtract each amount of purchase from the \$58 she started with;  
 $\$58 - \$18 = \$40$  and then  $\$40 - \$6 = \$34$ .  
 She has \$34 left.

**147. b.** Add the amount of miles for each day together for a total of 696 miles; 696 rounded to the nearest ten or nearest hundred is 700.

**148. c.** To find their total score, add their individual scores together:  $189 + 120 + 120 + 95 = 524$ .  
 Don't forget to add 120 twice for both Charles and Max.

**149. c.** You must subtract the reading at the beginning of the week from the reading at the end of the week:  $21,053 - 20,907$  is 146.

**150. c.** The values added together total \$618.  
YOUTUBE link for tutorial video:  
<https://www.youtube.com/watch?v=OsdeiOKGill&t=81s>  
 or search this: “set#7 leonalyn”

151. B                      161. A  
 152. D                      162. D  
 153. B                      163. D  
 154. A/C                    164. D  
 155. C                      165. E  
 156. B                      166. D  
 157. A                      167. D  
 158. B                      168. A  
 159. A                      169. A  
 160. A                      170. C

YOUTUBE link for tutorial video:  
<https://www.youtube.com/watch?v=cFisyIxlJ1V4&t=473s>  
or search this:  
 "mathematics from General-Education leonalyn"

171. b. 108 pounds + 27 pounds = 135 pounds.

172. c. The total value is \$5,525.

$$3 \times 125 = \$375 \text{ total}$$

$$2 \times 1300 = \$2,600 \text{ total}$$

$$2 \times 950 = \$1,900 \text{ total}$$

$$375 + 2600 + 1900 + 600 + 50 = 5525$$

173. b. Add the value of the 3 sweaters

$$(3 \times 68 = 204)$$

the computer game after the rebate ( $75 - 10 = 65$ )  
 and one bracelet (43);  $204 + 65 + 43 = \$312$ .

174. a. First you must find out how many miles the  
 truck has travelled since its last maintenance. To do  
 this subtract:  $22,003 - 12,398 = 9,605$ .

Now subtract 9,605 from 13,000 to find out how  
 many more miles the truck can travel before it must  
 have another maintenance:  $13,000 - 9605 = 3,395$ .

175. d. This is a problem of multiplication. The  
 easiest way to solve this problem is to temporarily  
 take away the five zeros, then multiply:  $365 \times 12 =$   
 $4,380$ . Now add back the five zeros for a total of  
 $438,000,000$ .

YOUTUBE link for tutorial video:  
<https://www.youtube.com/watch?v=jzi6NU3THx8&t=115s>  
or search this: "set#8 leonalyn"

176. d. This series has two alternating sets of  
 numbers. The first number is doubled, giving the  
 third number. The second number has 4  
 subtracted from it, giving the fourth  
 number. Therefore, the blank space will be 12  
 doubled, or 24.

177. d. Figure the amounts by setting up the  
 following

$$\text{equations: } S = \$3 + \$23 = \$26.$$

$$B = (\$1 \times 5) + (\$2 \times 2) \text{ or } \$5 + \$4 = \$9.$$

$$MR = \$1 \times 2 = \$2;$$

$$D = \$4 \times 1 = \$4.$$

$$\text{Now, add: } \$9 + \$2 + \$4 = \$15.$$

$$\text{Now subtract: } \$26 - \$15 = \$11.$$

178. b. The total value of the supplies and  
 instruments is found by adding the cost of each  
 item;  $1,200 + (2 \times 350) + (3 \times 55) + 235 + 125 + 75$   
 $= 1200 + 700 + 165 + 235 + 125 + 75$ .

The total is \$2500.

179. c. Follow the order of operations and evaluate  
 the exponent first. Since any nonzero number raised  
 to the zero power is equal to 1, then  $4^0 = 1$ .

Now multiply  $5(1) = 5$  to get the simplified value.

180. a. It is easiest to use trial and error to arrive at  
 the solution to this problem. Begin with choice a:  
 After the first hour, the number would be 20, after  
 the second hour 40, after the third hour 80, after the  
 fourth hour 160, and after the fifth hour 320.

Fortunately, in this case, you need go no further.  
 The other answer choices do not have the same  
 outcome.

YOUTUBE link for tutorial video:  
<https://www.youtube.com/watch?v=wgp9lyQolw4&t=132s>  
or search this: "set#13 leonalyn"

**181 to 185: BBBAB**

YOUTUBE link for tutorial video:  
[https://www.youtube.com/watch?v=eeJGu6\\_BeHk&t=9s](https://www.youtube.com/watch?v=eeJGu6_BeHk&t=9s)  
or search this: "NUMBER ANALOGY quiz leonalyn"

**186 to 190: DBABB**

**191 to 195: CABEA**

YOUTUBE link for tutorial video:  
<https://www.youtube.com/watch?v=pg6YtgYiJTE>  
or search this: "CSE Numerical Reasoning Quiz leonalyn"  
PEMDAS link: Order of Operation leonalyn  
<https://www.youtube.com/watch?v=fgmMu8g8Ril&t=77s>

**196 to 200: DACBD**

YOUTUBE link for tutorial video:  
<https://www.youtube.com/watch?v=YLnZhufCmCU&t=248s>  
or search this: "set#25 leonalyn"

**201 to 205: ACADD**

**206 to 210: CCAAB**

YOUTUBE link for tutorial video:  
<https://www.youtube.com/watch?v=nBaq0RUFicU&t=12s>  
or search this: "set#14 leonalyn"

211. a. A quarter section contains 160 acres, so  
 you must multiply:  $160 \times \$1,850 = \$296,000$ .

212. c. First, simplify the problem by dropping the  
 word "million." The problem then becomes  
 $P = 3,666$  and  $M = 36$ .

$$\text{So } P - M = 3,666 - 36 = 3,630$$

Now add the word "million" back and the  
 answer becomes 3,630 million.

**213. b.** 860 feet  $\times$  560 feet  $\div$  43,560 square feet per acre = 11.05 acres.

\*\*\*must watch the video for details

**214. b.** 30 men  $\times$  42 square feet = 1,260 square feet of space; 1,260 square feet  $\div$  35 men = 36 square feet; 42 - 36 = 6, so each man will have 6 less square feet of space.

**215. d.** First find the number of degrees that the temperature will increase; 57 - 53 = 4 degrees. Since the temperature increases 1 degree every 2 hours, 4 degrees  $\times$  2 hours is 8 hours. Add 8 hours to 5 A.M. It will be one o'clock in the afternoon.

**216. b.** In a fractional exponent, the numerator (number on top) is the power, and the denominator (number on the bottom) is the root.

Since 2 is the denominator, take the square root of 16.

Since  $4 \times 4 = 16$ , 4 is the square root of 16.

Then the numerator (power) is 1, so  $4^1 = 4$ .

**217. c.** The median of a group of numbers is found by arranging the numbers in ascending or descending order, and then finding the number in the middle of the set. First arrange the numbers in order: 12 14 14 16 20 22.

Since there is an even number of numbers in the list, find the average of the two numbers that share the middle. In this case the numbers in the middle are 14 and 16, and the average between them is 15.

**218. b.** When performing addition or subtraction with roots, the terms can only be combined if the radicands (numbers under the square root symbols) are the same. In this case, the radicands are both 2. Subtract the whole numbers in front of the square roots and keep the  $\sqrt{2}$   
 $16 - 4 = 12$  so the final answer is  $12\sqrt{2}$

**219. a.** To reduce a square root, find any factors that are also perfect squares. In this case,  $4 \times 5 = 20$  and 4 is a perfect square. Since  $\sqrt{4} = 2$ , then  $\sqrt{20} = \sqrt{4} \times \sqrt{5} = 2\sqrt{5}$

**220. c.** In order for a number to be divisible by 6, it must be able to be divided by six without a remainder. A shortcut to check divisibility by 6 is to see if the number is divisible by both 2 and 3. Since the 546 is even (ends in 6), the number is divisible by 2. Since the sum of the digits is  $5 + 4 + 6 = 15$  and 15 is divisible by 3, 546 is also divisible by 3. Since 546 is divisible by both 2 and 3, it is also divisible by 6.

YOUTUBE link for tutorial video:

<https://www.youtube.com/watch?v=3TUbb7Pdbaw&t=629s>

or search this: "set#16 leonalyn"

**221 to 230: DABBA - ABCCD**

YOUTUBE link for tutorial video:

<https://www.youtube.com/watch?v=lq72h4P9hvQ&t=123s>

or search this: "set#19 fractions leonalyn"

**231 to 240: DBCBA - BDBDA**

YOUTUBE link for tutorial video:

[https://www.youtube.com/watch?v=zHv1\\_A8B2Cs&t=450s](https://www.youtube.com/watch?v=zHv1_A8B2Cs&t=450s)

or search this: "set#20 shortcut leonalyn"

**241 to 250: BCADB - DCAAA**

YOUTUBE link for tutorial video:

<https://www.youtube.com/watch?v=5VHezfw7Lm8&t=57s>

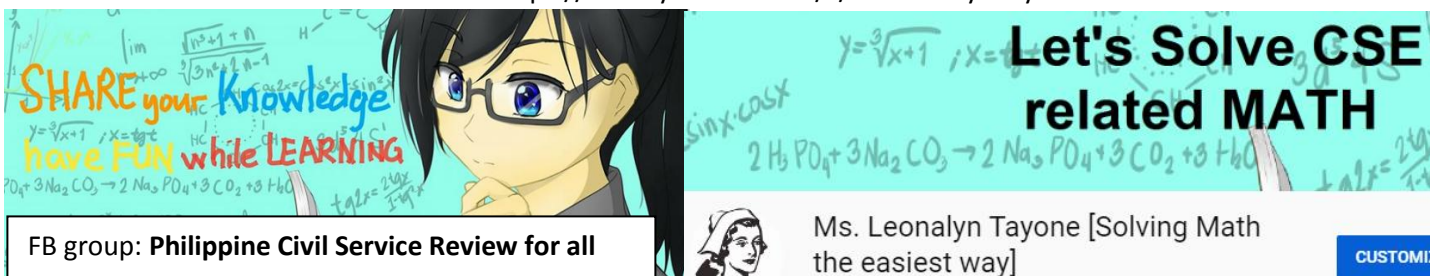
or search this: "Percentage WORD PROBLEM leonalyn"

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**Fb group:** <https://www.facebook.com/groups/121644125187853/>

**Youtube:** <https://www.youtube.com/c/MsLeonalynTayone>



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