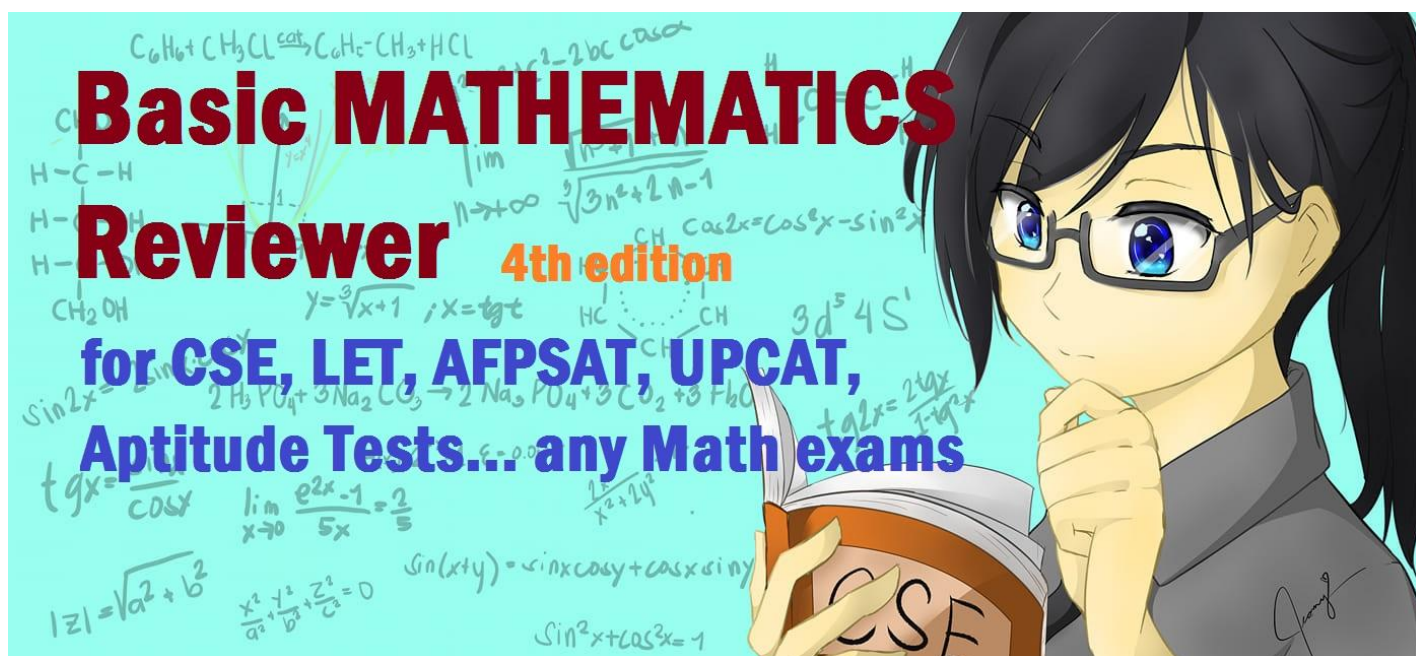



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**detailed solutions with links for
tutorial VIDEOS, all made by:
*Leonalyn Mutia-Tayone***

Youtube: Let's Solve CSE
related MATH



Ms. Leonalyn Tayone [Solving Math the
easiest way]

YOUTUBE link: <https://www.youtube.com/c/MsLeonalynTayone>

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All of these are taken from various online reviewers, books shared by members, previous CSE exams (shared by those who took the exam), from AFPSAT reviewer, NAPOLCOM, and some are originally created.... while I provided the detailed solutions with tutorial videos.

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- 1.) Find the next term in the sequence. 3, 6, 15, 21, 27, ____
a. 33 b. 30 c. 36 d. 40
- 2.) 1.1 2.4 3.9 4.16 5.25 ____
a. 6.25 b. 6.30 c. 6.36 d. 7.36 e. 7.49
- 3.) $\frac{8}{9}$ $-\frac{4}{9}$ $\frac{2}{9}$ ____ $\frac{1}{18}$ $-\frac{1}{36}$
a. $-\frac{1}{15}$ b. $-\frac{1}{12}$ c. $-\frac{1}{9}$ d. $\frac{1}{9}$ e. $\frac{1}{12}$
- 4.) 1.45×10^2 , 3.45×10^4 ____ 7.45×10^{16} 9.45×10^{32}
a. 3.45×10^6 b. 3.45×10^8 c. 5.45×10^6 d. 5.45×10^8 e. 5.45×10^{12}
- 5.) 3 9 19 33 ____
a. 49 b. 50 c. 51 d. 52 e. 53
- 6.) 54 18 36 12 24 ____ ____
a. 8, 4 b. 8, 16 c. 12, 36 d. 24, 8 e. 48, 16
- 7.) 10 16 28 52 ____
a. 96 b. 98 c. 100 d. 102 e. 104
- 8.) $\frac{1}{(2x+3)}$ ____ $\frac{(1+2x)}{(8x+5)}$ $\frac{(1+3x)}{11x+6}$
a. $\frac{x}{(3x+1)}$ b. $\frac{1}{(5x+4)}$ c. $\frac{1}{(6x+1)}$ d. $\frac{(1+x)}{(5x+4)}$ e. $\frac{(1+x)}{(6x+4)}$
- 9.) $\frac{1}{2}$ 1 $\frac{1}{4}$ 4 ____
a. $\frac{1}{8}$ b. $\frac{1}{16}$ c. $\frac{1}{32}$ d. $\frac{1}{48}$ e. $\frac{1}{64}$
- 10.) (10%, 500) (20%, 250) ____ (40%, 125) (50%, 100)
a. (30%, 150) b. (30%, 166.67%) c. (30%, 173.33) d. (30%, 200) e. (30%, 225)
- 11.) 2,500,000 16×10^4 9,000 4×10^2 ____
a. 0.1 b. 1 c. 10 d. 100 e. 1000
- 12.) 20 24 30 40 60 ____
a. 120 b. 80 c. 90 d. 110 e. 75

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- 13.) 10 12 15 20 27 ____
a. 34 b. 38 c. 29 d. 39
- 14.) 61 67 71 73 79 83 89 ____
a. 93 b. 97 c. 91 d. 96
- 15.) 1 3 6 11 18 ____
a. 35 b. 25 c. 27 d. 29
- 16.) $(4 \div 4 \times 2)$, $(8 \div 4 \times 2)$, $(16 \div 4 \times 2)$, ____
a. 32 b. 16 c. 4×2 d. $(32 \div 4 \times 2)$ e. $(16 \div 4 \times 2)$
- 17.) $(4 \div 4 \times 2)$, $(8 \div 4 \times 2)$, $(16 \div 4 \times 2)$, ____
a. 32 b. 16 c. 4 d. 2 e. 8
- 18.) $[2 \div 2 \times 4]$, $[4 \times 4 \div 2]$, $[6 \div 2 \times 4]$, ____
a. $[8 \times 2 \div 4]$ b. $(8 \times 4 \div 2)$ c. $[8 \div 2 \times 4]$ d. $[8 \times 4 \div 2]$ e. $(8 \div 4 \times 2)$
- 19.) $[2 \times 2 \div 4]$, $[4 \div 4 \times 2]$, $[6 \times 2 \div 4]$, ____
a. 8 b. 16 c. 32 d. 4 e. 2
- 20.) $[10 + 5 - 2]$, $[20 - 6 + 3]$, $[30 + 7 - 4]$, ____
a. 8 b. 5 c. 40 d. 37 e. 27
- 21.) 1, 2, 5, 11, ____, 17
a. 12 b. 13 c. 14 d. 15
- 22.) 1, 8, 27, ____, 125
a. 37 b. 47 c. 54 d. 64
- 23.) 6, 12, 21, 33, ____
a. 38 b. 40 c. 45 d. 48
- 24.) 2, 20, ____, 110, 182
a. 56 b. 72 c. 90 d. 96
- 25.) 81, 9, 64, ____, 49, 7
a. 8 b. 9 c. 10 d. 11
- 26.) 15, 20, 30, ____, 65
a. 35 b. 40 c. 45 d. 50
- 27.) 18, 30, 48, 72, 96, ____
a. 106 b. 115 c. 120 d. 96
- 28.) 12, 32, 72, 152, ____, 632
a. 515 b. 613 c. 815 d. 312
- 29.) 1, 2, 3, 5, 7, ____, 13
a. 8 b. 9 c. 10 d. 11
- 30.) 3, 8, 22, 63, 185, ____
a. 285 b. 295 c. 310 d. 500

- 31.) 27, 24, 30, 27, 33, ____
a. 48 b. 27 c. 30 d. 24
- 32.) 4, 10, 22, 46, ____
a. 56 b. 66 c. 76 d. 94
- 33.) 4, 1, -8, ____, -20, 29, -32, 43
a. 15 b. 16 c. 17 d. 18
- 34.) 2, -2, 7, 3, 17, ____, 32, 13
a. 70 b. 10 c. 9 d. 8
- 35.) 9, 15, 23, 33, ____,
a. 44 b. 36 c. 38 d. 45
- 36.) 12, 8, 14, 6, ____, 4
a. 5 b. 21 c. 24 d. 16
- 37.) 16, 12, 64, 16, ____, 20, 256
a. 18 b. 144 c. 20 d. 196
- 38.) 2, 6, ____, 120, 720, 5040
a. 12 b. 18 c. 24 d. 60
- 39.) 9, 6, 16, 10, 30, 18, ____, 34
a. 36 b. 60 c. 58 d. 66
- 40.) 10, 18, 34, ____, 130, 258
a. 32 b. 60 c. 68 d. 66
- 41.) 30, 23, 17, 12, ____, 5
a. 6 b. 7 c. 8 d. 9
- 42.) 8, 10, 14, 18, ____, 34, 50, 66
a. 28 b. 27 c. 26 d. 25
- 43.) 29, 36, 44, 53, ____
a. 55 b. 63 c. 65 d. 69
- 44.) 10, 22, 27, ____, 44, 56, 61
a. 32 b. 39 c. 40 d. 42
- 45.) 2, 10, 60, 420, 3360, ____
a. 30240 b. 27840 c. 25140 d. 222240
- 46.) 5, 8, 12, 17, 23, ____, 38
a. 26 b. 28 c. 30 d. 29
- 47.) 4, 9, 20, 43, 90, ____
a. 180 b. 182 c. 179 d. 185
- 48.) 5, 9, 16, 29, 54, 103, ____
a. 102 b. 294 c. 203 d. 200

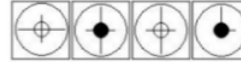
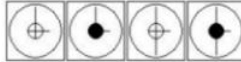
- 49.) 3, 9, 5, 25, 8, 64, 12, 144, ____
a. 17 b. 24 c. 36 d. 16 e. 20
- 50.) 1, 4, 13, 40, 121, 364, ____
a. 623 b. 719 c. 865 d. 997 e. 1093
- 51.) 5, 17, 19, 6, 14, 16, 7, 10, 12, 8, ____
a. 17. b. 15 c. 11 d. 9 e. 5
- 52.) 795, 2611, 684, 2722, 573, 2833, ____
a. 543 b. 484 c. 462 d. 446 e. -426
- 53.) -6, 30, -150, 750, ____
a. 3750 b. 2250 c. -1500 d. -2250 e. -3750
- 54.) $\frac{1}{3}$, $\frac{3}{9}$, $\frac{5}{15}$, $\frac{7}{21}$, $\frac{9}{27}$, ____
a. $\frac{11}{35}$ b. $\frac{11}{33}$ c. $\frac{9}{29}$ d. $\frac{8}{25}$ e. $\frac{4}{13}$
- 55.) 4, 16, 8, 40, 20, 120, 60, 420, ____
a. 480 b. 360 c. 240 d. 210 e. 140
- 56.) 2, 5, 3, 10, 4, 17, 5, 26, 6, ____
a. 40 b. 38 c. 37 d. 35 e. 33
- 57.) .02 .06 .12 .20 .30 ____
a. 0.36 b. 0.40 c. 0.42 d. 0.46 e. 0.48
- 58.) 2, 5, 12.5, 31.25, ____
a. 33.75 b. 43.25 c. 50.75 d. 78.125 e. 82.125
- 59.) $\frac{2}{5}$ $\frac{4}{7}$ $\frac{6}{9}$ $\frac{8}{11}$ ____
a. $\frac{11}{14}$ b. $\frac{10}{13}$ c. $\frac{12}{15}$ d. $\frac{10}{15}$ e. $\frac{11}{13}$
- 60.) $1\frac{1}{2}$ $2\frac{2}{3}$ $3\frac{3}{4}$ $4\frac{4}{5}$ ____
a. $5\frac{5}{6}$ b. $5\frac{4}{5}$ c. $6\frac{6}{7}$ d. $4\frac{5}{7}$ e. $6\frac{5}{7}$
- 61.) 2, 5, 4, 10, 6, 15, 8, ____, ____
a. 20, 10 b. 10, 20 c. 10, 10 d. 20, 20 e. 8, 10
- 62.) 10, 5, 20, 10, 60, 30, 240, 120, 1200, ____, ____
a. 600, 400 b. 120, 600 c. 600, 7200 d. 1200, 7200 e. 120, 580
- 63.) 10, 15, 9, 17, 8, 19, 7, ____, ____
a. 21, 7 b. 21, 6 c. 20, 6 d. 20, 7 e. 21, 23
- 64.) 25, 23, 36, 49, 47, 64, ____, ____
a. 62, 79 b. 60, 80 c. 62, 82 d. 60, 81 e. 62, 81
- 65.) 721, 521, 711, 531, 701, 541, ____, ____
a. 691, 550 b. 690, 551 c. 692, 551 d. 691, 551 e. 691, 552
- 66.) $\frac{148}{450}$ $\frac{158}{440}$ $\frac{168}{430}$ $\frac{178}{420}$ ____, ____
a. $\frac{188}{410}$, $\frac{198}{400}$ c. $\frac{188}{400}$, $\frac{198}{400}$ e. $\frac{188}{400}$, $\frac{198}{410}$
b. $\frac{188}{400}$, $\frac{188}{400}$ d. $\frac{188}{420}$, $\frac{188}{430}$

- 67.) 1.15, 2.25, 3.35, 4.45, ____
a. 5.15 b. 5.45 c. 5.50 d. 4.50 e. 5.55
- 68.) 75, 125, 100, 175, 125, 225, ____, ____
a. 150, 275 b. 150, 250 c. 175, 275 d. 175, 250 e. 175, 265
- 69.) 14, 15, 19, 20, 25, 26, 32, 33, ____, ____
a. 39, 42 b. 39, 40 c. 40, 41 d. 38, 41 e. 38, 40
- 70.) 48, 48, 53, 43, 59, 37, ____, ____
a. 65, 30 b. 65, 31 c. 66, 36 d. 66, 31 e. 66, 30
- 71.) .06 .08 .12 .06 .36 .04 ____ ____
a. 1.42, 0.02 b. 1.42, 0.0 c. 1.44, 0.04 d. 1.44, 0.02 e. 1.44, 0.0
- 72.) 10, 13, 19, 28, 40, 55, 73, 94, ____
a. 110 b. 118 c. 100 d. 115 e. 106
- 73.) $7\frac{1}{2}$, $6\frac{3}{4}$, 6, $5\frac{1}{4}$, $4\frac{1}{2}$, ____
a. $3\frac{3}{4}$ b. 3 c. $3\frac{1}{2}$ d. $3\frac{1}{4}$ e. $3\frac{2}{3}$
- 74.) 40, 92, 117, 221, 622, 778, ____
a. 1429 b. 986 c. 882 d. 830 e. 833

75.) Which figure completes the series?



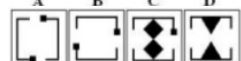
76.) Which figure completes the series?



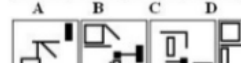
77.) Which figure completes the series?



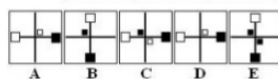
78.) Which figure completes the series?



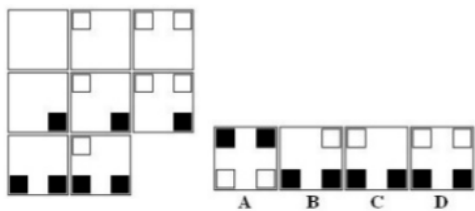
79.) Which figure completes the series?



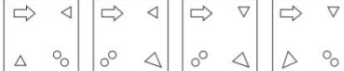
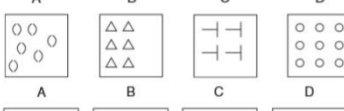
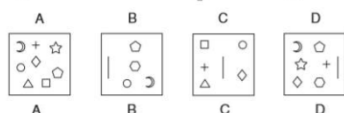
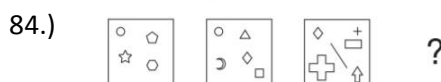
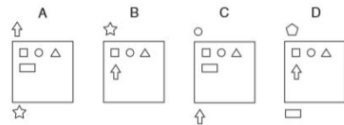
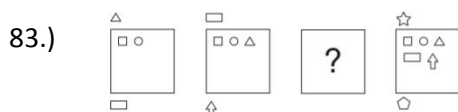
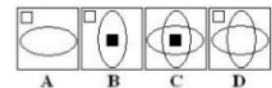
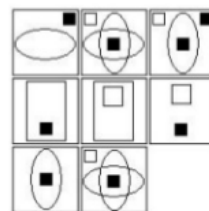
80.) Which figure is the odd one out?



81.) Which figure completes the series?



82.) Which figure completes the series?



- 87.) ? A B C D
- 88.) ? A B C D
- 89.) ? A B C D
- 90.) ? A B C D
- 91.) ? A B C D
- 92.) ? A B C D
- 93.) ? A B C D
- 94.) ? a. b. c. d. e.
- 95.) ? a. b. c. d.
- 96.) ? a) b) c) d)
- 97.) ? (A) (B) (C) (D)

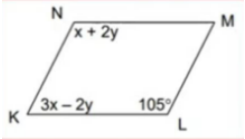
- 98.) B, A, D, B, H, C, ____
a. D b. N c. O d. E
- 99.) QPO, NML, KJI, ____, EDC
a. HGF b. CAB c. JKL d. GHI
- 100.) JAK, KBL, LCM, MDN, ____
a. OEP b. NEO c. MEN d. PFQ
- 101.) QAR, RAS, SAT, TAU, ____
a. UAV b. UAT c. TAS d. TAT
- 102.) ELFA, GLHA, ILJA, ____, MLNA
a. OLPA b. KLMA c. LLMA d. KLLA
- 103.) CMM, EOO, GQQ, ____, KUU
a. GRR b. GSS c. ISS d. ITT
- 104.) AE, CG, EI, GK, ____
a. MI b. IM c. HM d. IL

- 105.) D, I, L, Q, T, T, B, G, ____
a. H b. I c. J d. P
- 106.) ABD, DGK, HMS, MTB, SBL, ____
a. ZKU b. ZKW c. XKW d. ZAB
- 107.) BDF, CFI, DHL, ____
a. CJM b. EIM c. EJO d. EMI
- 108.) BE, GK, MR, TZ, BI, ____
a. JR b. KS c. JS d. KR
- 109.) 3F, 6G, 11I, 18L, ____
a. 21O b. 25N c. 27P d. 27Q
- 110.) cx, fu, ir, ____, ol, ri
a. lo b. mn c. no d. op
- 111.) If SINGLE can be given a code number of 66, what code number can be given to WINKLE?
a. 76 b. 66 c. 78 d. 74
- 112.) If REASON is called as 5 and BELIEVED as 7, what is the code number for GOVERNMENT?
a. 10 b. 8 c. 9 d. 6
- 113.) If PRATAP could be given a code number 1618120116, what code number can be given to NAVIN?
a. 73957614 b. 24639125 c. 14122914 d. 19274651
- 114.) If CENTURION is coded as 325791465, and RANK as 18510, what will the figure 78510 represent?
a. TANK b. BANK c. TAKE d. SANK
- 115.) If WORK is coded as 4567 and MAN 328, then WOMAN is coded as
a. 45328 b. 43528 c. 32845 d. 35428
- 116.) If spider is written as PSDIRE, how would COMMON be written in that code?
a. OCOMMO b. OCMMNO c. OCMOMN d. OCMMON
- 117.) If (a) 'gnr tag zog qmp' stands for 'Seoul Olympic organizing Committee', (b) 'hyto gnr emf' stands for, 'Summer Olympic Games', and (c) 'esm sdr hyto' stands for 'Modern Games History', What would 'summer' stands for?
a. gnr b. hyto c. emf d. zog
- 118.) In a certain language '526' means 'sky is blue', '24' means 'blue colour' and '436' means 'colour in fun'. Which digit in that language means 'fun'?
a. 2 b. 3 c. 4 d. 6
- 119.) If a rectangle is called a circle, a circle a point, a point a triangle, a triangle a square, then wheel is a:
a. rectangle b. circle c. point d. triangle
- 120.) If the letters is PRABA are coded as 27595 and THILAK are coded as 368451, how can BHARATHI be coded?
a. 96575368 b. 57686535 c. 96855368 d. 37536689
- 121.) If JAILAPPAS is coded as AIJAPLASP, ECONOMICS will be coded as:
a. COEMONCSI b. COEOMNCSI c. OECMONSCI d. OECOMNCIS

- 122.) In a certain code, TRIPPLE is written as SQHOOKD. How is DISPOSE written in that code?
a. CHRONRD b. DSOESPI c. ESJTPTF d. ESOPSID
- 123.) In a certain code, COMPUTER is written as RFUVQNPC. How is MEDICINE written in the same code?
a. EOJDJEFM b. EOJDEJFM c. MFEJDJOE d. MFEDJJOE
- 124.) Number Analogy: 3^2 is to 9 as 9^2 is to ____ a. 18 b. 27 c. 72 d. 81 e. 90
- 125.) 30% is to $\frac{3}{5}$ as 60% is to ____ a. $1\frac{1}{5}$ b. $1\frac{1}{4}$ c. $3\frac{1}{2}$ d. $2\frac{1}{3}$ e. $2\frac{3}{4}$
- 126.) 0.25 is to 0.125 as 1.25 is to ____ a. 6.250 b. 2.125 c. 1.625 d. 1.125 e. 0.625
- 127.) 12.5 is to $\frac{1}{8}$ as 20 is to ____ a. $\frac{1}{6}$ b. $\frac{1}{5}$ c. $\frac{1}{4}$ d. $\frac{1}{3}$ e. $\frac{1}{2}$
- 128.) 6 is to 15 as 36 is to ____ a. 90 b. 82 c. 75 d. 72 e. 60
- 129.) What is the ratio of $\frac{1}{4}$ to $\frac{3}{5}$? a. 1:3 b. 3:20 c. 5:12 d. 3:4 e. 5:4
- 130.) What percent of 120 is 125% of 50?
a. 55% b. 62.5% c. 72.5% d. 75% e. 100%
- 131.) The ratio of male employees to the female employees of manufacturing company is 16:25. The total number of employees is 246. If the company hired 4 more male workers, then what would be the new ratio of male to female employees of the company?
a. 4:5 b. 3:5 c. 2:3 d. 7:10 e. 10:7
- 132.) Rhea auditioned for a television show contest. They were asked to fall in a line. She figured out that she is the 28th person from the first person and 35th person counting from the last. The person-in-charge in the audition counted the number of auditionees. How many auditioned on that day?
a. 62 b. 63 c. 64 d. 65 e. 67
- 133.) Adding twice the number to the difference of thrice the number and 4 is just like subtracting 10 from three times the product of half of the number and 4. Find the number.
a. 12 b. 6 c. 8 d. 4 e. 2
- 134.) The numerator is 2 less than the denominator. If 1 is subtracted from the numerator and added to the denominator, the value of fraction is $\frac{1}{3}$. Find the original fraction
a. $\frac{1}{2}$ b. $\frac{1}{6}$ c. $\frac{1}{4}$ d. $\frac{2}{5}$ e. $\frac{3}{5}$
- 135.) A fraction A fraction is equivalent to $\frac{1}{2}$. If both numerator and denominator are increased by 2, the resulting fraction will be equivalent to $\frac{5}{9}$. What is the original fraction?
a. $\frac{1}{2}$ b. $\frac{3}{6}$ c. $\frac{4}{8}$ d. $\frac{8}{16}$ e. $\frac{5}{10}$
- 136.) The numerator of a fraction is 4 less than its denominator, if 3 is added both the numerator and denominator, the resulting number is $\frac{3}{4}$. What is the original fraction?
a. $\frac{9}{13}$ b. $\frac{10}{13}$ c. $\frac{8}{13}$ d. $\frac{9}{12}$ e. $\frac{8}{14}$
- 137.) Aunt Mary, 42 years old, has a 12-year-old niece. In how many years will Aunt Mary be twice as old as her niece?
a. 10 b. 15 c. 18 d. 20 e. 24
- 138.) Douglas is 7 less than the age of Timmy. If the sum of their age 10 years from now is 53, how old is Douglas now?
a. 15 b. 14 c. 14 d. 16

- 139.) Cherry's mom is older than her by 25 years. If the sum of their ages is 67, how old is her mother?
a. 45 b. 40 c. 48 d. 46?
- 140.) A vendor had a total sale of P60.50. He had 5 more 5-peso coins than twice the number of 1-peso coins. The number of 25-centavo coins is six times the number of 5-peso coins. If the total sales consist of 25-centavo, 1-peso, and 5-peso coins, how many 25-centavo coins does he have?
a. 2 b. 9 c. 24 d. 54
- 141.) $2/3x + 18 - 3x = -87$, What is the value of x? a. 40 b. 39 c. 43 d. 45
- 142.) One pack of orange juice can make 70 liters pitcher. That 70 liters pitcher of orange juice can be consumed by 10 people in just 15 days. If they add 8 more people, how many days will it last?
a. 7 and $2/3$ days b. 8 and $1/3$ days c. 6 and $1/2$ days d. 9 and $1/3$ days
- 143.) If $11:N = 20:120$, what is N? a. 70 b. 86 c. 66 d. 65
- 144.) Sheila bought 23 yellow pads which costs P25.75 per yellow pad. If she gave P1000 bill to the cashier, how much was her change?
a. 407.75 b. 404.25 c. 398.60 d. 410.25
- 145.) A teacher needs to buy boxes of chalks. Each box cost P104.50, but for every 7 boxes of chalk, the store offers her one free box. How much will she pay for 20 boxes of chalks?
a. P2010 b. P1985 c. P1881 d. P2090
- 146.) At present, the ratio between the ages of Arun and Deepak is 4:3. After 6years, Arun's age will be 26 years. What is the age of Deepak at present?
a. 12 years b. 15 years c. 19 and half d. 21 years
- 147.) A shopkeeper purchased 200 bulbs for Rs10 each. However, 5 bulbs were fused and need to be thrown away. The remaining were sold at Rs12 each. What will be the percentage profit?
a. 13% b. 15% c. 17% d. 22%
- 148.) Which expression represents the quotient? $\frac{4x^2y}{8xy^2} \div \frac{12xy^2}{8x^6y^3}$
a. $x^5/3$ b. $3/x^5$ c. $x^6/3$ d. $3/x^0$
- 149.) The average of three numbers is 135. The largest of these numbers is 180 and the difference between other two numbers is 25. What is the value of the smallest number?
a. 125 b. 110 c. 100 d. None of these
- 150.) The sum of the digits of a two digit numbers is 12. If the new number formed by reversing the digits is greater than the original number by 54. Then, what will be the original number?
a. 93 b. 28 c. 48 d. 39
- 151.) Three numbers are in the ratio of 3:4:5 respectively. If the sum of the first and third numbers is more than the second number by 52, then which will be the largest number?
a. 52 b. 65 c. 67 d. 69
- 152.) PEMDAS: $(20-6+2) \div 4 \times 2 = \underline{\hspace{1cm}}?$ a. 1.5 b. 2 c. 6 d. 8
- 153.) The sum of two numbers is 54. The larger number is 5 times that of the smaller number. Find the product of the two numbers.
a. 405 b. 270 c. 324 d. 130 e. 159

- 154.) Two boxes A and B contained some pens. Box A contained 5 more pens than box B. When 8 pens were transferred from Box B to Box A, Box A had 4 times as many as Box B. How many pens were there in Box B at first? a. 15 b. 13 c. 32 d. 20 e. 40
- 155.) John is four times as old as Martha. Five years ago, the sum of their ages was 50. How old are they now? a. 15 and 45 b. 12 and 48 c. 10 and 40 d. 10 and 50 e. 20 and 40
- 156.) Tim is 5 years older than JoAnn. Six years from now, the sum of their ages will be 79. How old are they now a. 30 and 35 b. 31 and 36 c. 35 and 40 d. 20 and 25 e. 28 and 33
- 157.) Diane is 23 years older than her daughter Amy. In 6 years, Diane will be twice as old as Amy. How old are they now? a. 20 and 43 b. 12 and 35 c. 17 and 40 d. 18 and 41 e. 15 and 38
- 158.) Fred is 4 years older than Barney. Five years ago, the sum of their ages was 48. How old are they now? a. 25 and 29 b. 29 and 33 c. 27 and 31 d. 30 and 34 e. 28 and 32
- 159.) The ratio of two numbers is 5:8. If the smaller number is 25, what is the larger number? a. 100 b. 55 c. 50 d. 40 e. 48
- 160.) What is the least number if divided by 4, 5, and 10 the remainder is 3? a. 23 b. 43 c. 63 d. 83 e. 103
- 161.) Mr Tan has 8 times as many blue pens as red pens. He has 711 pens altogether. If he sells 168 blue pens, how many blue pens does he have left? a. 632 b. 543 c. 479 d. 464 e. 633
- 162.) Cadet A had 3 times as much as book as cadet B, but after Cadet A gave Cadet B 12 books, they had the same number of books. How many books did Cadet A have at first? a. 13 b. 12 c. 15 d. 11 e. 36
- 163.) A walks north while B walks south at the rate of 36 mi/hr and 15 mi/h. How far apart are they from each other after 2 minutes. a. 2.6 miles b. 3.2 miles c. 1.7 miles d. 4.5 miles
- 164.) Mark averaged 60 mph during the 30-mile trip to college. Because of heavy traffic he was able to average only 40 mph during the return trip. What was Mark's average speed for the round trip? a. 48 miles/hour b. 50 miles/hour c. 40 miles/hour d. 44 miles/hour
- 165.) After 6 Mathematics tests, Ruben has a mean score of 85. What score does Ruben need on the next test to raise his average (mean) to 90? a. 90 b. 120 c. 100 d. 110 e. 85
- 166.) 2.12 is multiplied by 10 to the sixth power is? a. 212,000 b. 2,120,000 c. 212,000 d. 21, 200
- 167.) 25 is multiplied by 10 to the fifth power is? a. 2,500,000 b. 250,000 c. 25,000 d. 0.000025
- 168.) Find the value of x in the equation: $5x + 25 = 10$ a. 5 b. 3 c. -3 d. -5
- 169.) If $x=8$, find the value of y in the equation: $4x - 2y = 28$ a. -4 b. -2 c. 4 d. 2

- 170.) Find the value of x if $y = 8$ in the equation: $2x + 4y = 50$
 a. 9 b. 8 c. 10 d. 4
- 171.) Kit is twice as old as his friend Sam. Sam is 5 years older than Cara. In 5 years, Kit will be three times as old as Cara. How old is Sam?
 a. 2 years old b. 3 years old c. 4 years old d. 5 years old
- 172.) In the figure. KLMN is a parallelogram with angle measures as marked. Find $x^2 + y^2$
 a. 30 b. 45 c. 75 d. 2925
- 
- 173.) The ratio of male to female at the classroom was 9:2. If there were 12 females at the classroom, how many male cadets were at the classroom?
 a. 24 b. 33 c. 55 d. 54
- 174.) If one side of a square is doubled and the other side increased by 7 units, the resulting rectangle will have an area of 120 square units. What is the length of the side of the square?
 a. 5 b. 6 c. 7 d. 8
- 175.) How many gallons of acid will be used to make a 250 gallons mixture of acid and water of which 12% is acid?
 a. 20 gallons b. 30 gallons c. 50 gallons d. 10 gallons
- 176.) The numbers differ by 13. The sum of the large and twice the smaller is 82. What is the smaller number?
 a. 33 b. 43 c. 23 d. 13
- 177.) What is the area of a square that has 15 cm long diagonal?
 a. 114.5 cm^2 b. 113.5 cm^2 c. 112.5 cm^2 d. 112.3 cm^2
- 178.) What is the area of a square that has 5cm long diagonal?
 a. 22.5 cm^2 b. 15.2 cm^2 c. 12.5 cm^2 d. 5.22 cm^2
- 179.) A purse contains 6 1-peso coins, 5 25-centavo coins and 8 5-peso coins. If one coin is drawn at random from the purse, what is the probability that the coin drawn is 25 centavo coins?
 a. 0.26 b. 0.27 c. 0.3 d. 0.45
- 180.) A die is rolled, find the probability that an even number is obtained.
 a. $\frac{1}{2}$ b. $\frac{1}{4}$ c. $\frac{3}{4}$ d. $\frac{3}{10}$
- 181.) Jomar starts clearing the lawn at 8:00am and by 9:20am he was finished $\frac{4}{5}$ of it. If he continued working at the same rate, at what time will he finish clearing the lawn?
 a. 10:36am b. 9:40am c. 9:52am d. 10:02am
- 182.) Janitor A can clean the office in 4 hours. Janitor B works faster and can clean the office in 3 hours. How long would it take them to clean the office if they work together?
 a. 0.55 hour b. 0.56 hour c. 0.59 hour d. 0.58 hour e. 1.71 hours
- 183.) A boy can finish a certain work in 3 hours alone. The same is true for a girl. How long will it take them if they work together?
 a. 1.5 hours b. 3 hours c. 6 hours d. 2 hours e. 3.5 hours
- 184.) How much water must be added to 25 liters of 65% salt solution to reduce it to 25% solution?
 a. 42 b. 38 c. 36 d. 40
- 185.) The sum of two numbers is 78. Their difference is 4. Find the two numbers.
 a. 36, 42 b. 40, 36 c. 34, 42 d. 32, 46

- 186.) The scale on a military map is 1 inch = 150 miles, Grid Coordinates (GC) 2477 and 2765 are $8\frac{1}{2}$ inches apart on this map. What is the actual distance between the two GCs. (Grid Coordinates indicates exact location in a military map)
- a. 1275 miles b. 1270 miles c. 1185 miles d. 1265 miles
- 187.) Find the exact time after 4 pm when the minute hand coincides with the hour hand?
- a. 4:21.6 b. 4:22.8 c. 4:22.7 d. 4:21.8
- 188.) What is the value of x when $2x + 3 = 3x - 4$?
- a. 1 b. $-\frac{1}{5}$ c. 7 d. -7
- 189.) A cylinder has a base radius of 5 cm and height of 7 cm. What is the surface area?
- a. $70\pi \text{ cm}^2$ b. $149\pi \text{ cm}^2$ c. $60\pi \text{ cm}^2$ d. $120\pi \text{ cm}^2$
- 190.) If a trapezoid has a side 8 cm and a height of 9 cm and another parallel side of 4 cm. What is the area?
- a. 54 cm^2 b. 72 cm^2 c. 66 cm^2 d. 32 cm^2
- 191.) A cone has a base radius of 3 cm and a height of 15 cm. What is the surface area?
- a. 154.02 cm b. 134.02 cm c. 164.02 cm d. 174.02 cm
- 192.) What is the angle if the complement is 2 times larger than its supplement?
- a. 270 b. 250 c. 280 d. 260
- 193.) What is the area of a square that has a 5 cm long diagonal?
- a. 22.5 cm b. 15.2 cm c. 12.5 cm d. 5.22 cm
- 194.) A hexagon has how many diagonals?
- a. 9 b. 7 c. 18 d. 8
- 195.) What is the larger angle if two supplementary angles are in the ratio 1:2?
- a. 140 b. 120 c. 150 d. 170
- 196.) A train runs at the speed of 72 kph and crosses a 250 metre long platform in 26 seconds. What is the length of the train?
- a. 250 meters b. 520 meters c. 360 meters d. 270 meters
- 197.) In a classroom, there are 250 women and 300 men, what is the ratio of the women and to the whole population?
- a. 5:6 b. 5:11 c. 6:5 d. 6:11
- 198.) There are 85 people in a warehouse. Some have been turned to zombies; some are still alive. If the ratio of zombies-to-living humans are 2:3, how many zombies are there?
- a. 34 b. 51 c. 17 d. 42 e. 45
- 199.) $\frac{3}{4}$ of a year is 9 months, then what is $\frac{2}{12}$ of a month?
- a. 30 days b. 60 days c. 5 days d. 10 days e. 28 days
- 200.) When I was 8 years, my sister was quarter of my age, and my brother was two times of my age. Now my sister is 30 years. How old is my brother?
- a. 40 yrs old b. 44 yrs old c. 32 yrs old d. 60 yrs old e. 54 yrs old
- 201.) Penelope is told to clean all the windows at her house. After cleaning 9 windows her job is 30% complete. How many windows does she clean in all?
- a. 50 b. 30 c. 100 d. 25

- 202.) Liza's science class spend 1.75 hours preparing to dissect an earthworm. How many hours in simplest fraction form did she spend preparing for the dissection?
- a. $1\frac{1}{75}$ b. $1\frac{75}{100}$ c. $1\frac{3}{5}$ d. $1\frac{3}{4}$
- 203.) Tony's house is 3.2 km from the city hall. How far is the distance of Tony's house from the city hall in fraction form?
- a. $3\frac{1}{5}$ km b. $3\frac{2}{5}$ km c. $3\frac{2}{9}$ km d. $3\frac{2}{10}$ km
- 204.) One Canadian dollar is valued at 40.96 of a Philippine peso. What is the equivalent of this valued if expressed as fraction in lowest term?
- a. $40\frac{96}{100}$ b. $40\frac{48}{99}$ c. $40\frac{24}{50}$ d. $40\frac{24}{25}$
- 205.) If the thickness of a book is 0.8cm, what is its equivalent thickness in the lowest form of fraction?
- a. $\frac{4}{5}$ b. $\frac{4}{9}$ c. $\frac{8}{9}$ d. $\frac{8}{10}$
- 206.) Given pairs of rational in the box, which pairs have correct equivalent values?
- | | |
|------------------------------------|-------------------------------------|
| I. $0.\overline{59} = \frac{5}{9}$ | III. $0.\overline{7} = \frac{7}{9}$ |
| II. $0.910 = \frac{9}{10}$ | IV. $0.13 = \frac{13}{100}$ |
- a. I and II only
b. II and III only
c. II and IV only
d. II and IV only
- 207.) Billy, Tommy and Johny were in the ratio of 4:5:8 and it was decided to increase by 150%, 60% and 50%. What will be the new ratio?
- a. 5:4:6 b. 12:5:8 c. 6:3:4 d. 1:1:2
- 208.) A rectangle has a perimeter of 360m. If its length and width are in a ratio of 5 : 4, respectively, what would be its area?
- a. 800m² b. 8,000m² c. 100m² d. 1,000m²
- 209.) Jack's age five years ago and Jill's age in five years are in a ratio of 7 : 11, respectively. If Jack is two years older than Jill, how old is Jill? A
- a. 15 yrs old b. 16 yrs old c. 17 yrs old d. 18 yrs old e. 19 yrs old
- 210.) If $8x + 12 = 24$, what is the value of $24x + 36$?
- a. 72 b. 48 c. 60 d. 44 e. 80
- 211.) Pat's watch gains an extra 10 seconds every 2 hours. Kim's watch loses 5 seconds every 3 hours. If both watches are set to correct time at 8 o'clock in the morning and run without interruption, after 72 hours, what will be the difference in time between Pat's watch and Kim's watch?
- a. 4 min b. 6 min c. 6 min 40 sec d. 7 min 30 sec e. 8 min
- 212.) $\frac{5}{4} (42 \div \frac{3}{16}) = \underline{\hspace{1cm}}?$ a. 6.3 b. 224 c. 9.8 d. 179.2 e. 280
- 213.) What is the estimated product when 157 and 917 are rounded to the nearest hundred and multiplied?
- a. 160,000 b. 180,000 c. 16,000 d. 80,000
- 214.) 3 hours 20 minutes – 1 hour 48 minutes =
- a. 5 hrs 8 mins b. 4 hrs 8 mins c. 2 hrs 28 mins d. 1 hr 32 mins
- 215.) In 3 years, Alex will be 3 times as old as his sister Precy. A year ago, Alex was 7 times as old as Precy. How old are they now?
- a. 3 and 15 b. 7 and 35 c. 5 and 25 d. 5 and 35

- 216.) Three-fourth of what number is twelve?
a. 14 b. 16 c. 15 d. 12
- 217.) What is the value of a in the statement $3ab = 15$ if $b = 5$?
a. 3 b. 1 c. 2 d. 5
- 218.) $7\frac{1}{2} \times 1\frac{2}{3} = ?$ a. $12\frac{2}{5}$ b. $12\frac{1}{4}$ c. $12\frac{1}{2}$ d. $12\frac{2}{3}$
- 219.) $36\frac{5}{12} + 24\frac{2}{3} = ?$ a. $61\frac{3}{12}$ b. $61\frac{1}{2}$ c. $61\frac{1}{12}$ d. $61\frac{2}{3}$
- 220.) $8\frac{1}{10} - 6\frac{3}{5} = ?$ a. $1\frac{1}{2}$ b. $2\frac{1}{2}$ c. $1\frac{1}{5}$ d. $2\frac{4}{5}$
- 221.) $\frac{1}{2} + \frac{5}{8} + \frac{1}{4} = ?$ a. $1\frac{1}{8}$ b. $1\frac{2}{8}$ c. $1\frac{3}{8}$ d. $1\frac{1}{2}$
- 222.) $8\frac{5}{6} + 7\frac{5}{12} + 6\frac{2}{3} + \underline{\hspace{1cm}} = ?$ a. $22\frac{10}{12}$ b. $23\frac{11}{12}$ c. $22\frac{11}{22}$ d. $24\frac{11}{22}$
- 223.) $(3\sqrt{8})(3\sqrt{18}) = ?$ a. 108 b. 107 c. -108 d. 105
- 224.) A number is increased by 200 and divided by 9. The result is 80. What is the number?
a. 560 b. 515 c. 500 d. 520 e. 511
- 225.) A grade six pupil got the following scored for his six subjects, 87, 88, 83, 85, 89, 88. What grade should he get from his seventh project to get an average of 87?
a. 88 b. 86 c. 90 d. 89 e. 85
- 226.) A basket of green mangoes cost P187.50. If the total number of mangoes in the basket is 25 and each mango cost P8, how much discount did a buyer get?
a. P12 b. P13.50 c. P12.50 d. P14 e. P15
- 227.) A fisherman sold his catch to a woman who is selling seafood in the market. His catch consists of five big crabs which he sold for P120 each, 12 bug tilapia which he sold for P18 per piece and two and a half kilos of small shrimps he sold for 80 a kilo. How much was his total sales?
a. P1,016 b. P1,250 c. P1,115 d. P1,170 e. P1,150
- 228.) A man won the P2,500,000 jackpot in a slot machine. He donated 15% of his winnings to a housing project of the club where he is a member. How much was his donation?
a. P500,000 b. P250,000 c. P300,000 d. P375,000 e. P400,000
- 229.) Find the value of $(5X^2Y^3Z^3)/(12Y^2)$ is $X=2$, $Y=1$ and $Z=3$
a. 42 b. 36 c. 32 d. 40 e. 35
- 230.) 148 is $\frac{4}{9}$ of what number? a. 320 b. 360 c. 333 d. 420
- 231.) $3(11+X) + 4(12+X) - 5(10+X)$ a. $32+7X$ b. $31+2X$ c. $40+2X$ d. $42+5X$
- 232.) If twice the son age in years is added to the father age, the sum is 70. But if twice the father ages is added to the son age, the sum is 95. Find the ages of son and father.
a. 10, 45 b. 30, 40 c. 25, 30 d. 15, 40 e. 12, 25
- 233.) In 48 years, John will be 5 times of his current age. In how many years he will be 100 years old?
a. 80 years b. 48 years c. 12 years d. 88 years e. 40 years

- 234.) Erika Grace boarded a bus bound for Clark at 4 AM. After 1 1/2 hours Daniella Ann followed driving a car at 75 mph. Assuming that the bus is travelling at an average speed of 50 mph. At what time will Daniella overtake the bus?
a. 8:30am b. 9:00am c. 10:30am d. 6:30am e. 7:00am
- 235.) The diagonal of a rectangle is 13 meters while one side is 12 meters. What is its area?
a. 60 sqm b. 2530 m c. 50 sqm d. 156 sqm e. None of the above
- 236.) A car travels and average speed of 75 kph. If it travelled for 3.5 hours, what is the total distance travelled?
a. 262.5 kms b. 150 kms c. 75 kms d. 450 kms e. 102.5 kms
- 237.) Marco can dig a ditch in 5 hours, and he and Jimmy can do it in 2 hours. How long would it take Jimmy to dig the same ditch alone?
a. 3 hours b. 3 1/3 hours c. 4 hours d. 10 hours e. 2 1/2 hours
- 238.) One hose can fill a pool in 3 hours and a smaller hose can fill the same pool in 4 hours. How long will it take the two hoses to fill the entire pool?
a. 7/12 hrs b. 5/12 c. 1/12 hrs d. 1 5/7hrs e. 2 1/2 hrs
- 239.) Ramos can paint a house in 6 days. Ralph can do the same job in 10 days. If they both worked for 2 days, what part of the job is done?
a. 3/4 b. 1/2 c. 8/15 d. 1/5 e. 3/14
- 240.) Aria can do a job in 7 days. What part of the job is finished after she worked for 3 days?
a. 1/3 b. 3/7 c. 2/13 d. 1/5 e. 4/9
- 241.) Katya can do a job in 5days. Maria can do the same job in 6 days. If they both worked for 1 day, what part of the job is finished?
a. 11/30 b. 11/15 c. 8/11 d. 5/6 e. 1/3
- 242.) A coffee retailer wishes to mix two grades of coffee of P35 per kilo and P60 per kilo in order to obtain a mixture of 50 kilos, which will be sold at P45 per kilo. How many kilos of each should be used?
a. 15, 20 b. 30, 20 c. 20, 12 d. 25, 15 e. 40, 22
- 243.) A Math teacher can grade 25 test papers in 30mins. She usually takes a 10min rest grading 40 test papers. At this rate how many mins will she take to grade 120 test papers
a. 2hours & 24mins b. 3hours & 24mins c. 3hours e. 2hours & 44mins
- 244.) Ms. Daza bought 20 blouses for P2,400 and marked them to sell at P145 each. After selling 16 pieces at this rate, she decided to sell the remaining blouses at a lower price. At what price may she sell each remaining blouse and still realize a profit of P480 on the 20 blouses?
a. P140 b. P133 c. P138 d. P135 e. P143
- 245.) Mang Kanor can climb a coconut tree at the rate of 10ft per minute and return at 20ft per minute. If it took him 3 minutes to climb and return, what is the height of the coconut tree?
a. 15ft b. 13ft c. 18ft d. 10ft e. 20ft
- 246.) A laundry women bought a washing machine cost P1350. Before, it cost her P250 to wash clothes but now with the washing machine, it cost her P160 in washing clothes. In how many months she has to pay her washing machine from her savings?
a. 20 b. 18 c. 24 d. 15 e. 16
- 247.) James is 9 years older than Kevin. Two years ago, his age was twice that of Kevin's age. How old is James?
a. 18 b. 22 c. 14 d. 20 yo e. 16

- 248.) A printing press prints books at a production cost of P80 per book and incurs monthly overhead expenses of P12,000. If each book sells for P110, how many books should be printed and sold in a month to break even?
a. 350 b. 400 c. 450 d. 500 e. 550
- 249.) A certain number is doubled and then divided by 8. If after subtracting 4 from the result gives 16. What is the original number?
a. 48 b. 64 c. 70 d. 80 e. 100
- 250.) A certain number is tripled and then divide by 4. If adding 13 to the result gives 58, what is the original number?
a. 40 b. 60 c. 80 d. 120 e. 140
- 251.) One third of a certain number added to $\frac{1}{5}$ of the next consecutive number is 5. What is the sum of the two numbers?
a. 23 b. 21 c. 19 d. 17 e. 15
- 252.) The sum of the three numbers is 94. The first number is $\frac{3}{5}$ of the second and the second is $\frac{4}{3}$ of the third. What are the three numbers?
a. 12, 46, 36 b. 19, 43, 32 c. 20, 39, 35 d. 24, 40, 30 e. 28, 37, 29
- 253.) If the sum of three consecutive integers is 9 less than 5 times the smallest of the three integers, what is the sum of the three consecutive integers?
a. 19 b. 21 c. 23 d. 25 e. 27
- 254.) If the sum of 5 consecutive numbers is 95, what is the third number?
a. 17 b. 18 c. 19 d. 20 e. 21
- 255.) If $1.5 = 1.8/(x+2)$ then $x = ?$
a. -1.4 b. -0.8 c. 0.2 d. 0.8 e. 1.4
- 256.) A larger number divided by a smaller number gives a quotient of 3 with a remainder of 5. If the sum of the numbers is 77, what is the larger number?
a. 62 b. 61 c. 60 d. 59 e. 58
- 257.) A man makes a deposit of P800. If his deposit consists of 25 bills some P50 and the rest P20. How many P20 bills does he have?
a. 15 b. 17 c. 20 d. 22 e. 25
- 258.) Freddie has 37 bills of P20 and P10 amounting P520, how many P20 bills does he have?
a. 15 b. 17 c. 20 d. 22 e. 25
- 259.) Three measures were recorded 53, 60, and 58. What additional measure should be added so that the average of the four measures will be 60?
a. 69 b. 68 c. 67 d. 65 e. 60
- 260.) Three boys weigh 55 kilos, 45 kilos, and 51 kilos respectively. What must be the weight of the fourth boy if the average weight of the following boys is 52 kilos?
a. 59 b. 58 c. 57 d. 54 e. 52
- 261.) 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. $264\frac{5}{16}$ b. $331\frac{9}{16}$ c. $132\frac{5}{8}$ d. $300\frac{5}{8}$
- 262.) Find four consecutive even integers such that the sum of the second and the fourth integers is 76.
a. 24, 26, 28, 30 b. 30, 32, 34, 36 c. 40, 42, 44, 46 d. 34, 36, 38, 40

- 263.) How much must be cut from the edge of a piece of glass $16\frac{1}{8}$ cm wide, in order for it to fit into an opening $14\frac{3}{4}$ cm wide?
 a. $2\frac{3}{8}$ cm b. $1\frac{7}{8}$ cm c. $1\frac{3}{8}$ cm d. $2\frac{5}{8}$ cm
- 264.) How much must one has to invest in corporate bonds paying 9.6% in order to earn an income of Php12,000 per annum?
 a. Php 11,520 b. Php 23,040 c. Php125,000 d. Php 250,000
- 265.) $|5-N| = 3$, what is the value of N? a. 8 b. 8 & 2 c. 2 d. 2 & 7
- 266.) Find all the roots of the equation: $|x-2| = |3-2x|$
 a. $-5/3$ and 1 b. $5/3$ and -1 c. $5/3$ d. $5/3$ and 1 e. 1
- 267.) A storekeeper bought three grades pencils at P2.00, P3.00 and P4.00 a dozen respectively. If he paid a total of P76.50 for them and bought the same number of each grade, how many pencils did he buy?
 a. 84 b. 306 c. 90 d. 102
- 268.) $4+20\div4\times5=?$ a. 5 b. 30 c. 29 d. None of the above
- 269.) $10-2+12-4=?$ a. -8 b. 8 c. 16 d. None of the above
- 270.) $20-15\div5\times3+2=?$ a. 17 b. 21 c. 13 d. 5
- 271.) $-5^2 + (-5^2) + (-5)^2 = ?$ a. 75 b. 25 c. -25 d. -75
- 272.) $16\div2\times4-(8\div2\times4)+1=?$ a. 0 b. 2 c. 17 d. 14
- 273.) 25 is $1/4\%$ of what number? a. 100 b. 1000 c. 10,000 d. 750
- 274.) $(99)^0 - (-2)^2 + (-3^2) - (-4)^2 = ?$
 a. -9 b. -10 c. -28 d. 30 e. none of the above
- 275.) A ten and one fifth percent of 50% of a number is 51. What is the number?
 a. 100 b. 10 c. 1000 d. 10,000 e. 1
- 276.) $(10\times4\div2)$, $(12\div4\times2)$, $(14\times4\div2)$, _____
 a. 2 b. 16 c. 8 d. 32 e. 12
- 277.) What is the simplest form of the given expression: $5+3(1-2)^3+2(1-2)^2=?$
 a. -10 b. -6 c. 4 d. 0 e. 10
- 278.) When the original price of an item is increased by a certain rate, the increased price is Php 3,100. When the original price is decreased by the same rate, the decreased price is Php 1,900. What is the original price of this item?
 a. Php 1,200 b. Php 200 c. Php 2,500 d. Php 2,800
- 279.) Last month, a store manager decided to decrease the prices of all items by 10%. This month, he increased the prices by 10%. What would be the price for a pair of pants that had cost Php 750 before prices were decreased last month?
 a. Php 742.50 b. Php 750.00 c. Php 675.00 d. Php 825.00
- 280.) In a room of ten people, how many handshakes will there be if every person shakes hands with everyone else exactly once?
 a. 10 b. 45 c. 54 d. 60 e. 81

- 281.) Concrete is made of a mixture of cement, sand and gravel. If the weight is twice the weight of sand and the weight of cement is three fifths of the weight of sand, how many kilograms of each are required to make 540 kilograms of concrete?
- a. C = 90, S = 150, G = 300 c. C = 100, S = 240, G = 200
b. C = 150, S = 90, G = 300 d. C = 80, S = 200, G = 260
- 282.) Find a number such that 5 more than one-half the number is three times the number.
- a. 2 b. 4 c. 6 d. 8 e. 10
- 283.) If $3x = 2y$ and $6y = 7z$, what is the RATIO of x to z?
- a. 2:3 b. 7:9 c. 3:2 d. 5:7 e. 6:7
- 284.) If the perimeter of a rectangle is 18 inches, and one side is one inch longer than the other, how long are the sides?
- a. 4 & 5 b. 6 & 5 c. 3 & 6 d. 4 & 6
- 285.) John is 3 years older than Jim. Jim is 4 years less than twice David's age. How old are the three boys if their ages add up to 35?
- a. 9, 13 & 15 b. 7, 10 & 18 c. 8, 12 & 15 d. 8, 12 & 18
- 286.) The sum of two consecutive odd numbers is 72. Find the two numbers.
- a. 33 and 35 b. 35 and 37 c. 37 and 39 d. 39 and 41
- 287.) Jim is 3 times as old as his cousin and the difference in their ages is 18. How old is Jim?
- a. 45 b. 27 c. 50 d. 36
- 288.) What is the hypotenuse of a right triangle if its two sides measure 15 inches and 8 inches?
- a. 15 b. 16 c. 17 d. 18
- 289.) In a warehouse, the distribution of jeans, shirts, and socks are in the ratio of 5:3:2. If there are 160 pairs of jeans, how many socks are there?
- a. 64 b. 66 c. 68 d. 70
- 290.) The ratio of adults to children in a community is 7:82. If there are 203 adults, how many children are there? .
- a. 1,958 b. 2,168 c. 2,378 d. 2,508
- 291.) $18 \div 9 \times (9 - 7) = ?$
- a. 1 b. 9 c. 16 d. 4
- 292.) $3 + 3 \times 3 - 3 + 3 = ?$
- a. 18 b. 12 c. 3 d. 6
- 293.) If $2x - 3y = 6$, then $6y - 4x =$
- a. -12 b. -6 c. 6 d. 12
- 294.) A sum of money is to be distributed among A, B, C, D in the ratio of 5:2:4:3. If C gets P1000.00 more than D, what is B's share?
- a. 500 b. 150 c. 2,000 d. 2,500 e. 1,800
- 295.) If there are 5 people, Anna, Brenda, Cathy, Danny, and Elaine, and only three will be chosen for the new Nursing Coordinators, how many combinations are possible for the committee?
- a. 5 b. 10 c. 8 d. 15 e. 6
- 296.) Antonio is as old as the combined age of her two brothers Bendito and Cristiano. But Cristiano is two years older than Bendito. The combined age of the three last year was $\frac{3}{4}$ their combined ages at present. How old is Bendito now?
- a. 6 b. 2 c. 4 d. 8 e. 10

- 297.) In a mixture of 35 litres, the ratio of milk and water is 4:1. If 7 litres of water is added to the mixture, the ratio of milk and water of the new mixture will be ____
 a. 2:1 b. 1:2 c. 4:5 d. 5:4
- 298.) A water container has 250 ml of water in it and is 10% full. How many ml of water can this container hold if it is in full capacity?
 a. 225 b. 2,250 c. 2,000 d. 2,500
- 299.) Of the final grades received by the students in a certain math course, $\frac{1}{5}$ are A's, $\frac{1}{4}$ are B's, $\frac{1}{2}$ are C's, and the remaining 10 grades are D's. What is the number of students in the course?
 a. 80 b. 110 c. 160 d. 200 e. 400
- 300.) Two carpenters are building each small dog house. Carpenter A started building his at 1:00pm and ended at 5:30pm. Carpenter B, being a newbie is more slower than A by half. At what time must carpenter B start building so that he can end at the same time with A?
 a. 8:30am b. 3:45pm c. 11:30am d. 11:15am e. 10:45am

READ these INSPIRATIONAL QUOTES...

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

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

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

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

"Be stronger than your excuses."

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

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

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

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

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

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

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

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

Sincerely helping you without asking in return,

♥ Leonalyn Mutia-Tayone ♥

**This is 100%
FREE of
charge....**

**For any typo error or
clarification about my
math solutions, please
let me know**



Answers

1.) C. 36

Alternate

$$3 + 12 = 15 + 12 = 27$$

$$6 + 15 = 21 + 15 = 36$$

Find the next term in the sequence.
3, 6, 15, 21, 27, _

6:24

NUMBER SERIES: Find the next term in the sequence. ...

Tutorial video for detailed solution: <https://youtu.be/vImq8I9Tx8M>
or search on youtube: **Leonalyn NUMBER SERIES: Find the next term in the sequence**

2.) C. 6.36

3.) C. -1/9

4.) D. 5.45×10^8

5.) C. 51

6.) B. 8, 16

Civil Service Exam

5-item NUMBER SERIES

part 1 (MUST WATCH!)

13:47

Tutorial video for detailed solution: <https://youtu.be/aXihJNoT7B8>
or search on youtube: **Leonalyn NUMBER SERIES part1 Lumabas**

7.) C. 100

8.) D. $(1+x)/5x+4$

9.) A. 1/8

10.) B. (30%, 166.67)

11.) C. 10

Civil Service Exam

5-item NUMBER SERIES
part 2 (MUST WATCH!)

(10%, 500) (20%, 250) (40%, 125) (50%, 100)
1. (30%, 150) 4. (30%, 200)
2. (30%, 166.67) 5. (30%, 225)
3. (30%, 173.33)

Tutorial video for detailed solution:

<https://youtu.be/50kkaaxl5cE>

or search on youtube: **Leonalyn NUMBER SERIES part2 Lumabas**

12.) A. 120

Tutorial video for detailed solution:

https://youtu.be/_PMr9T_Ccyc

or search on youtube: **Leonalyn NUMBER SERIES 20, 24, 30, 40, 60**

Number Series

20, 24, 30, 40, 60, _

9:26

13.) B. 38

14.) B. 97

Number series

61 67 71 73 79 83 89 ?

10, 12, 15, 20, 27, ?

Tutorial video for detailed solution:

<https://youtu.be/Od7WWDxtBCI>

or search on youtube: **Leonalyn NUMBER SERIES Prime**

15.) D. 29

Tutorial video for detailed solution:

<https://youtu.be/oJl5SKp19tl>

or search on youtube:

Leonalyn NUMBER SERIES next term

Number Series

1, 3, 6, 11, 18, _?

What is the next term?

Number Series: 1, 3, 6, 11, 18, ? What is the next term?

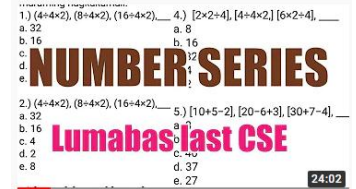
16.) D. $(32 \div 4 \times 2)$

17.) B. 16

18.) D. $[8 \times 4 \div 2]$

19.) D. 4

20.) D. 37



Tutorial video for detailed solution: <https://youtu.be/cp8sb66Hoe4>
or search on youtube: **Leonalyn NUMBER SERIES lumabas**

21.) B

22.) D

23.) D

24.) A

25.) A

26.) C

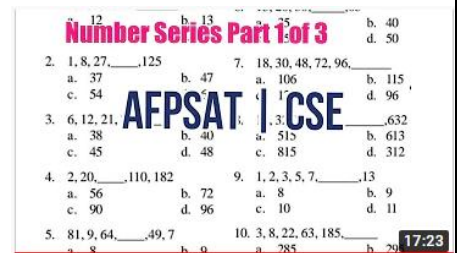
27.) D

28.) D

29.) C if pattern is +1 +1 +2 +2 +3 +3

In the video, the answer is D, coz these are obviously prime numbers, thus the answer must be 11. Otherwise, the author must not place 10 and 11 together.

30.) D



Tutorial video for detailed solution: <https://youtu.be/RVF3Uec85qU>
or search on youtube: **Leonalyn NUMBER SERIES missing afpsat**

31.) C. 30

32.) D. 94

33.) A. 15

34.) D. 8

35.) D. 45

36.) D. 16

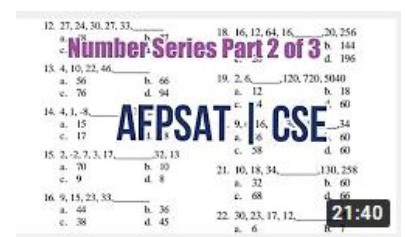
37.) B. 144

38.) C. 24

39.) C. 58

40.) D. 66

41.) C. 8



Tutorial video for detailed solution: <https://youtu.be/mW0XVW6I43k>
or search on youtube: **Leonalyn NUMBER SERIES missing afpsat**

42.) C. 26

43.) B. 63

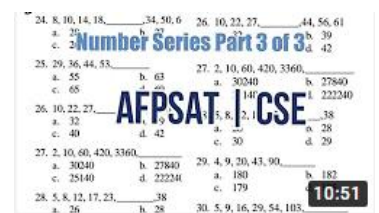
44.) B. 39

45.) A. 30240

46.) C. 30

47.) D. 185

48.) D. 200



Tutorial video for detailed solution: <https://youtu.be/JaWF8eeNQoM>
or search on youtube: **Leonalyn NUMBER SERIES missing afpsat**

49.)A. 17

Tutorial video for detailed solution:

<https://youtu.be/5fxdpsM5yTo>
or search on youtube:

Leonalyn NUMBER SERIES 3 9 5 25 8

Pa'no po sagutan to:

3, 9, 5, 25, 8, 64, 12, 144, ?

explained....

5:09

50.)E. 1093

51.)E. 5

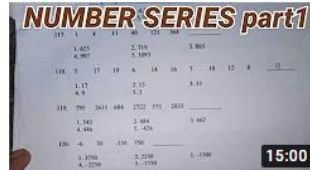
52.)C. 462

53.)E. -3750

Tutorial video for detailed solution:

<https://youtu.be/IKuajKEJIT0>

or search on youtube: **Leonalyn part1 NUMBER SERIES numerical reasoning**



54.)B. 11/33

55.)D. 210

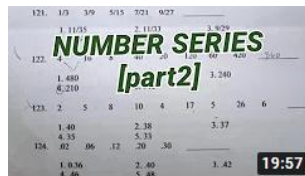
56.)C. 37

57.)C. 0.42

58.)D. 78.125

Tutorial video for detailed solution: <https://youtu.be/qxCbZ8cTipg>

or search on youtube: **Leonalyn part2 NUMBER SERIES numerical reasoning**



59.)B. 10/13

60.)A. 5 5/6

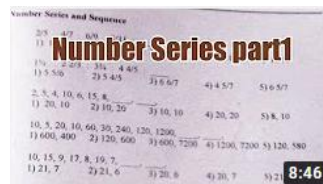
61.)A. 20, 10

62.)C. 600, 7200

63.)B. 21, 6

Tutorial video for detailed solution: <https://youtu.be/1iNBCY9yQyU>

or search on youtube: **Leonalyn NUMBER SERIES Part1: 2/5 4/7**



64.)E. 62, 81

65.)D. 691, 551

66.)A. 188/410, 198/400

67.)E. 5.55

Tutorial video for detailed solution: <https://youtu.be/6KCRldFg2il>

or search on youtube: **Leonalyn NUMBER SERIES Part2: 25 23 36 34**



68.)A. 150, 275

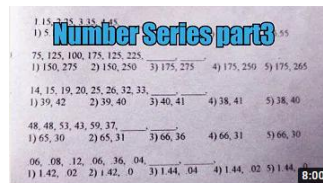
69.)C. 40, 41

70.)E. 66, 30

71.)D. 1.44, 0.02

Tutorial video for detailed solution: <https://youtu.be/4pu4sqRrYT8>

or search on youtube: **Leonalyn NUMBER SERIES Part3: 75 125 100**

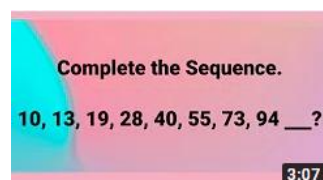


72.)B. 118

Tutorial video for detailed solution:

https://youtu.be/4YjT5Sb_s3U

or search on youtube: **Leonalyn Complete Sequence**



73.)A. $3\frac{3}{4}$

Tutorial video for detailed solution:

https://youtu.be/RWNGHa_c3jw

or search on youtube: **Leonalyn Fraction NUMBER SERIES 7 1/2**

Number Series

7 $\frac{1}{2}$, 6 $\frac{3}{4}$, 6, 5 $\frac{1}{4}$, 4 $\frac{1}{2}$, _____

a. $3\frac{3}{4}$ c. $3\frac{1}{2}$
b. 3 d. $3\frac{1}{4}$

6:08

74.)A. 1429

Tutorial video for detailed solution:

<https://youtu.be/NCmcwV9fbTl>

or search on youtube: **Leonalyn NUMBER SERIES 40 92 117 Logical**



75.)A

76.)C

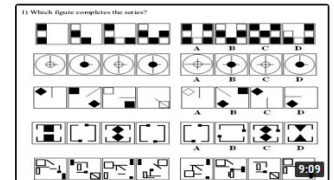
77.)C

78.)D

79.)B

Tutorial video for detailed solution: <https://youtu.be/aoUqlv7nPGI>

or search on youtube: **Leonalyn Which figure completes the series**



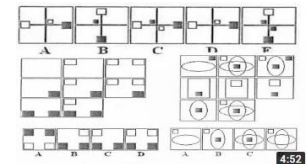
80.)E

81.)D

82.)A

Tutorial video for detailed solution: <https://youtu.be/PEoZYk2NsWE>

or search on youtube: **Leonalyn Which figure completes the series**



83.)A

84.)D

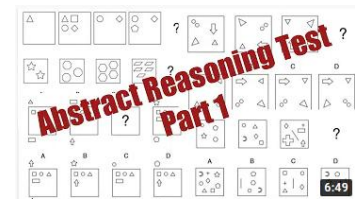
85.)A

86.)C

87.)C

Tutorial video for detailed solution: <https://youtu.be/66i3bxXbJd8>

or search on youtube: **Leonalyn 10-item abstract reasoning part1**



88.)A

89.)B

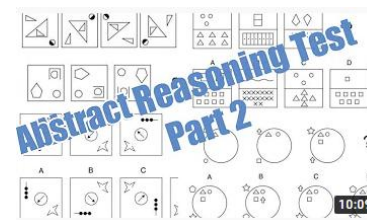
90.)B

91.)C

92.)D

Tutorial video for detailed solution: <https://youtu.be/6oZun0PGFFU>

or search on youtube: **Leonalyn 10-item abstract reasoning part2**

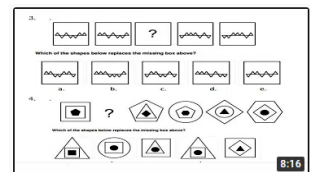


93.)D

94.)D

Tutorial video for detailed solution: <https://youtu.be/agsoENcNg2E>

or search on youtube: **Leonalyn Which of the shapes below replaces the missing box**

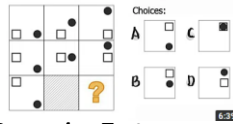


95.)C

Tutorial video for detailed solution:

<https://youtu.be/nhdBqU9-7JE>

or search on youtube: **Leonalyn Abstract Reasoning Test**

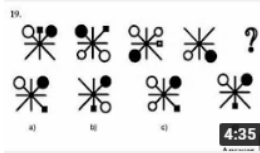


96.)D

Tutorial video for detailed solution:

https://youtu.be/XFw_IYOlo0w

or search on youtube: **Leonalyn Aptitude figure completes the series**

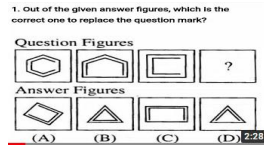


97.)D

Tutorial video for detailed solution:

<https://youtu.be/4IEOYmQ3uok>

or search on youtube: **Leonalyn Abstract replace question mark**



98.)B. N

99.)A. HGF

100.) B. NEO

Tutorial video for detailed solution:

<https://youtu.be/8UOPKdsFXw>

or search on youtube: **Leonalyn Letter series B A D B H C**

Can you answer this?

B, A, D, B, H, C, _____

A. D C. O
B. N D. E

101.) A. UAV

102.) D. KLLA

103.) C. ISS

104.) B. IM

105.) C. J

106.) B. ZKW

107.) C. EJO

108.) B. KS

109.) C. 27P

110.) A. lo

Tutorial video for detailed solution: <https://youtu.be/Ki8s811AALs>

or search on youtube: **Leonalyn Letter series Logical**



111.) D. 74

112.) C. 9

113.) C. 14122914

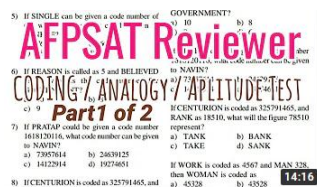
114.) A. TANK

115.) A. 45328

116.) B. OCMMNO

Tutorial video for detailed solution: <https://youtu.be/Ki8s811AALs>

or search on youtube: **Leonalyn AFPSAT code part1**



117.) C. emf

118.) B. 3

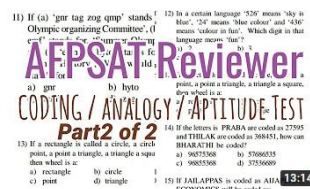
119.) C. point

120.) A. 96575368

121.) B. COEOMNCSI

Tutorial video for detailed solution: <https://youtu.be/RXIHxWbJ1yY>

or search on youtube: **Leonalyn AFPSAT code part2**



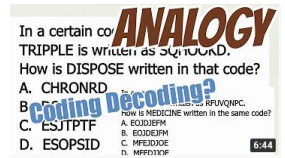
122.) A. CHRONRD

123.) A. EOJDJEFM

Tutorial video for detailed solution:

<https://youtu.be/s1oAkpMg81M>

or search on youtube: **Leonalyn Analogy decoding**



124.) D. 81 or B. 27?

(MUST watch the tutorial video for detailed explanation)

125.) A. 1 1/5

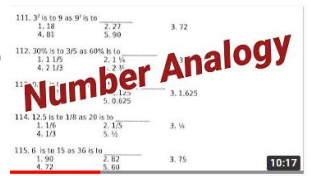
126.) E. 0.625

127.) B. 1/5

128.) A. 90 or C. 75? (Must watch the tutorial video for detailed explanation)

Tutorial video for detailed solution: <https://youtu.be/wAvJt0gJSjM>

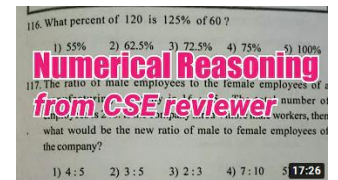
or search on youtube: **Leonalyn Number Analogy 5-item**



129.) C. 5:12

Tutorial video with 5 detailed solutions: https://youtu.be/_YVvKHP-lil4

or search on youtube: **Leonalyn ratio of 1/4 to 3/5**



130.) B. 62.5%

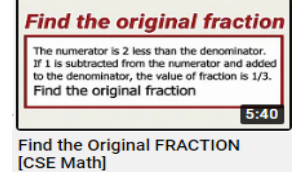
131.) C. 2:3

132.) A. 62

133.) B. 6

Tutorial video for detailed solutions: <https://youtu.be/XqXa5On0g1l>

or search on youtube: **Leonalyn numerical reasoning from**



134.) E. 3/5

Tutorial video for detailed solutions:

<https://youtu.be/xjSp-9Dnp94>

or search on youtube:

Leonalyn find the original fraction

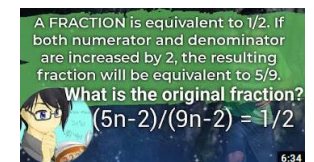
135.) D. 8/16

Tutorial video for detailed solutions:

<https://youtu.be/cJVvms3JVH8>

or search on youtube:

Leonalyn find the original fraction



136.) A. 9/13

Tutorial videos for detailed solutions:

<https://youtu.be/-6C3kmhbPDI>

<https://youtu.be/dSL1yzvKTsA>

or search on youtube:

Leonalyn find the original fraction

Word Problem

The numerator of a FRACTION is 4 less than its denominator, if 3 is added both the numerator and denominator, the resulting number is 3/4. What is the ORIGINAL FRACTION?

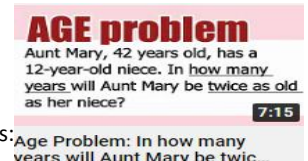
137.) C. 18

Tutorial videos for detailed solutions:

<https://youtu.be/oW0FwWvJPpc>

or search on youtube:

Leonalyn age problem Aunt mary



138.) B. 13

139.) D. 46

Tutorial video for detailed solution:

<https://youtu.be/7PCMwq5nfd0>

or search on youtube:

Leonalyn age problem Douglas

140.) D. 54

Tutorial video for detailed solution:

<https://youtu.be/H9SLM5WBBuo>

or search on youtube:

Leonalyn Mixture 25-centavo coins

141.) D. 45

Tutorial video for detailed solution:

<https://youtu.be/6ZolQtzZNqU>

or search on youtube:

Leonalyn what is the value of x

142.) B. 8 and 1/3 days

Tutorial video for detailed solution:

<https://youtu.be/r8JD4uchNMk>

or search on youtube:

Leonalyn work job add 8 more people

143.) C. 66

Tutorial video for detailed solution:

<https://youtu.be/f3Hr5oUjUMA>

or search on youtube:

Leonalyn Finding the value of X ratio

144.) A. 407.75

Tutorial video for detailed solution:

https://youtu.be/n7_SITjMzhc

or search on youtube:

Leonalyn Finding gave P1000 bill cashier

145.) C. P1881

Tutorial video for detailed solution:

<https://youtu.be/dSKwUteHhUc>

or search on youtube:

Leonalyn she pay for 20 boxes chalks

146.) B. 15 years

Tutorial video for detailed solution:

<https://youtu.be/MZcQ3zkHZcs>

or search on youtube:

Leonalyn ratio between ages Arun Deepak

147.) C. 17%

Tutorial video for detailed solution:

<https://youtu.be/mCrmvKug5KY>

or search on youtube:

Leonalyn percentage profit shopkeeper

AGE PROBLEMS

134. Douglas is 7 less than the age of Timmy. If the sum of their ages is 19 years from now is 52, how old is Douglas now?

a. 12 b. 13 c. 14 d. 15

135. Cherry's mom is older than her by 25 years. If the sum of their ages is 17, how old is her mother?

a. 45 b. 40 c. 48 d. 66

13:30

AGE PROBLEM | Numerical Reasoning CSE Math...

Mixture Problem:

A vendor had a total sale of P60.50. He had 5 more 5-peso coins than twice the number of 1-peso coins. The number of 25-centavo coins is six times the number of 5-peso coins. If the total sales consist of 25-centavo, 1-peso, and 5-peso coins, how many 25-centavo coins does he have?

A. 2 B. 9 C. 24 D. 54

11:28

Mixture Problem: how many 25-centavo coins does he...

What is the VALUE of X?

133. $\frac{2}{3}x + 10 - 3x = -87$, what is the value of x?

a. 40 b. 39 c. 43 d. 45

6:58

$2/3x + 10 - 3x = -87$, What is the VALUE of x?

One pack of orange juice can make 70 liters pitcher. That 70 liters pitcher of orange juice can be consumed by 10 people in just 15 days. If they add 8 more people, how many days will it last?

a. 7 and 2/3 days
b. 8 and 1/3 days
c. 6 and 1/2 days
d. 9 and 1/3 days

7:42

Work Job Problem: 10 people in 15 days... If they add 8...

If $11:N = 20:120$ what is N?

a. 70 b. 86 c. 66 d. 65

131. If $11:N = 20:120$, what is N?

a. 70 b. 86 c. 66 d. 65

7:45

If $11:N = 20:120$, what is N? | Finding the Value of X | CSE...

Sheila bought 23 yellow pads which costs P25.75 per yellow pad. If she gave P1000 bill to the cashier, how much was her change?

a. 407.75 b. 404.25 c. 398.60 d. 410.25

130. Sheila bought 23 yellow pads which costs P25.75 per yellow pad. If she gave P1000 bill to the cashier, how much was her change?

a. 407.75 b. 404.25 c. 398.60 d. 410.25

4:58

Math Word Problem Reviewer... If she gave...

A teacher needs to buy boxes of chalks. Each box cost P104.50, but for every 7 boxes of chalk, the store offers her one free box. How much will she pay for 20 boxes of chalks?

a. P2010 b. P1985 c. P1881 d. P2090

129. A teacher needs to buy boxes of chalks. Each box cost P104.50, but for every 7 boxes of chalk, the store offers her one free box. How much will she pay for 20 boxes of chalks?

a. P2010 b. P1985 c. P1881 d. P2090

4:33

Math Word Problem: How much will she pay for 20...

Word Problem: 3 solutions AGE PROBLEM... RATIO

At present, the ratio between the ages of Arun and Deepak is 4 : 3. After 6 years, Arun's age will be 26 years. What is the age of Deepak at present?

6:38

Word Age Problem | RATIO | At present, the ratio between...

Math: Word Problem... made easy

A shopkeeper purchased 200 bulbs for Rs10 each. However, 5 bulbs were fused and need to be thrown away. The remaining were sold at Rs12 each. What will be the percentage profit?

a. 13% b. 15% c. 17% d. 22

4:34

What will be the PERCENTAGE PROFIT?

148.) C. $x^6/3$

Tutorial video for detailed solution:

https://youtu.be/W9Z_zezkCU

or search on youtube:

Leonalyn expression represent quotient

149.) C. 100

Tutorial video for detailed solution:

<https://youtu.be/PAujfhA4nVI>

or search on youtube:

Leonalyn average smallest number

150.) D. 39

Tutorial video for detailed solution:

<https://youtu.be/kakywMbFp2Y>

or search on youtube:

Leonalyn reversing the digits greater than

151.) B. 65

Tutorial video for detailed solution:

<https://youtu.be/rFpxSqj1WFI>

or search on youtube:

Leonalyn sum first and third numbers

152.) D. 8

Tutorial video for detailed solution:

<https://youtu.be/H9pGgZiPnW0>

or search on youtube:

Leonalyn follow PEMDAS correctly

153.) A. 405

154.) A. 15

Tutorial video for detailed solution:

<https://youtu.be/BW4ZekWHak>

or search on youtube:

Leonalyn product two numbers Pens

155.) B. 12 and 48

156.) B. 31 and 36

Tutorial video for detailed solution:

<https://youtu.be/sb-Yb31Bnr0>

or search on youtube:

Leonalyn age problem John Martha Tim

157.) C. 17 and 40

158.) C. 27 and 31

Tutorial video for detailed solution:

<https://youtu.be/MvYFYCGVBKE>

or search on youtube:

Leonalyn age problem Diane Amy Fred

159.) D. 40

160.) A. 23 (least number, otherwise,

the answers are 23, 43, 63, 83, 103....+20

Tutorial video for detailed solution:

<https://youtu.be/58OQFEFqht4>

or search on youtube:

Leonalyn ratio two numbers remainder

Which expression represents the quotient? $\frac{4x^2y}{8xy^2} \div \frac{12xy^2}{8x^2y^2} = ?$

A. $\frac{x}{y}$
B. $\frac{x^2}{y^2}$
C. $\frac{x^3}{y^3}$
D. $\frac{x^4}{y^4}$

5:44

Which expression represent the quotient [Algebra]...

The average of three numbers is 135. The largest of these numbers is 180 and the difference between other two numbers is 25. What is the value of the smallest number?

(A) 125
(B) 110
(C) 100
(D) none of these

4:47

AVERAGE Math Problem: ...what is the value of the...

Math: Word Problem... made easy

The sum of the digits of a two digit numbers is 12. If the new number formed by reversing the digits is greater than the original number by 54. Then, what will be the original number?

a. 93 b. 28 c. 48 d. 3

11:04

SUM of the two digit numbers is 12... by reversin...

Math: Word Problem... made easy

Three numbers are in the ratio of 3:4:5 respectively. If the sum of the first and third numbers is more than the second number by 52, then which will be the largest number?

a. 52 b. 65 c. 67 d. 69

5:10

RATIO of 3:4:5 ... If the sum of the first and third number...

How to follow PEMDAS correctly?

$(20 - 6 + 2) \div 4 \times 2$

a. 1.5 c. 6
b. 2 d. 8

18:59

How to follow PEMDAS correctly? | Order of...

The sum of two numbers is 54. The larger number is 5 times that of the smaller number. Find the product of the two numbers.

Two boxes A and B contained some pens. Box A contained 5 more pens than box B. When 8 pens were transferred from Box B to Box A, Box A had 4 times as many as Box B. How many pens were there in Box B at 9:02

Word Problems: Find the product of the two numbers...

Age Problems

John is four times as old as Martha. Five years ago, the sum of their ages was 50. How old are they now?

Tim is 5 years older than JoAnn. Six years from now, the sum of their ages will be 79. How old are they now.

6:42

Age Problem: How old are they now? Part2 of 2

Age Problems

Diane is 23 years older than her daughter Amy. In 6 years, Diane will be twice as old as Amy. How old are they now?

Fred is 4 years older than Barney. Five years ago, the sum of their ages was 48. How old are they now?

9:54

Age Problem: How old are they now? Part1 of 2

The ratio of two numbers is 5:8. If the smaller number is 25, what is the larger number?

What number if divided by 4, 5, and 10 the remainder is

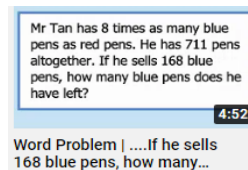
5:37

Ratio of two numbers is ... | What number if divided by 4...

161.) D. 464

Tutorial video for detailed solution:
<https://youtu.be/XGDKP--KE60>
or search on youtube:

Leonalyn sells 168 blue pens



162.) E. 36

Tutorial video for detailed solution:
https://youtu.be/E_D47zwumNo
or search on youtube:

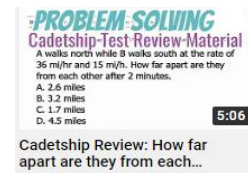
Leonalyn Cadetship books first



163.) C. 1.7 miles

Tutorial video for detailed solution:
<https://youtu.be/nG-bzLp2wvo>
or search on youtube:

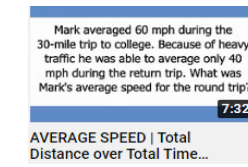
Leonalyn Cadetship far apart



164.) A. 48 miles/hour

Tutorial video for detailed solution:
<https://youtu.be/MAOkY0y8P9Q>
or search on youtube:

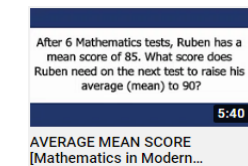
Leonalyn Speed Total Distance Time Mark



165.) B. 120

Tutorial video for detailed solution:
<https://youtu.be/tehClip6doM>
or search on youtube:

Leonalyn Average Mean Ruben



166.) B. 2,120,000

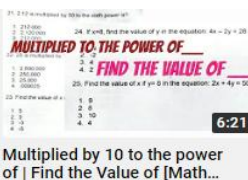
167.) A. 2,500,000

168.) C. -3

169.) D. 2

170.) A. 9

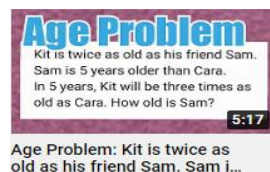
Tutorial video for detailed solution: <https://youtu.be/ZdiMi0nPCGI>
or search on youtube: **Leonalyn Value Multiplied by 10 power**



171.) D. 5 years old

Tutorial video for detailed solution:
https://youtu.be/KXy8svt_6z0
or search on youtube:

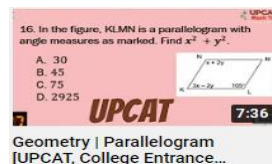
Leonalyn Age Problem Kit Sam Cara



172.) D. 2925

Tutorial video for detailed solution:
https://youtu.be/WHY_B08qSs4
or search on youtube:

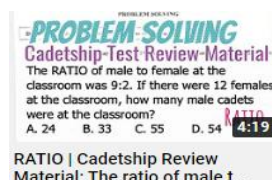
Leonalyn Geometry Parallelogram



173.) D. 54

Tutorial video for detailed solution:
<https://youtu.be/kaui9xbQiu>
or search on youtube:

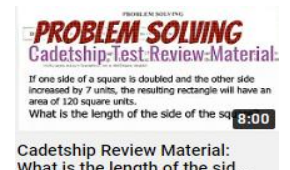
Leonalyn Cadetship Ratio male female



174.) A. 5

Tutorial video for detailed solution:
<https://youtu.be/3-ToUTjLIfo>
or search on youtube:

Leonalyn cadetship length side square

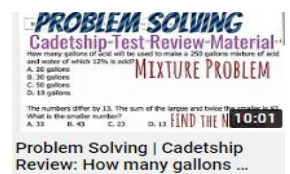


175.) B. 30 gallons

176.) C. 23

Tutorial video for detailed solution:
<https://youtu.be/SxrBIVoutvs>
or search on youtube:

Leonalyn cadetship Mixture gallons

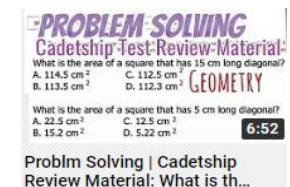


177.) C. 112.5 cm²

178.) C. 12.5 cm²

Tutorial video for detailed solution:
https://youtu.be/jE_lyu4e1Fs
or search on youtube:

Leonalyn cadetship area square 15cm

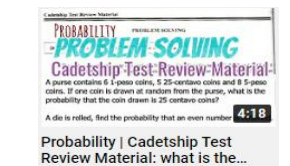


179.) A. 0.26

180.) A. 1/2

Tutorial video for detailed solution:
https://youtu.be/dM7QFJ_j2tc
or search on youtube:

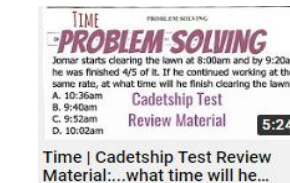
Leonalyn cadetship probability coin drawn



181.) B. 9:40am

Tutorial video for detailed solution:
<https://youtu.be/E054M5ctAxA>
or search on youtube:

Leonalyn cadetship finish clearing lawn

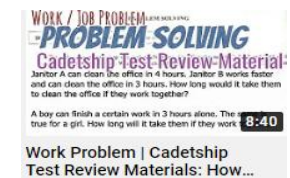


182.) E. 1.71 hours

183.) A. 1.5 hours

Tutorial video for detailed solution:
<https://youtu.be/87Xo3VeMR1c>
or search on youtube:

Leonalyn cadetship work together Janitor

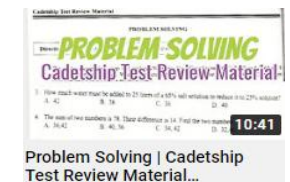


184.) D. 40

185.) D. 32, 46

Tutorial video for detailed solution:
<https://youtu.be/-bGHUqfpp0c>
or search on youtube:

Leonalyn cadetship water salt solution

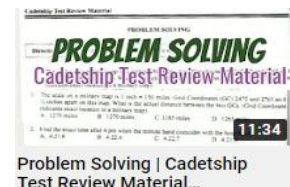


186.) A. 1275

187.) D. 4:21.8

Tutorial video for detailed solution:
<https://youtu.be/aNkKS5ddyYM>
or search on youtube:

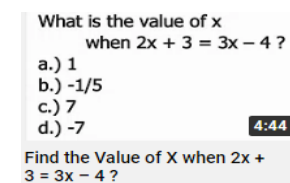
Leonalyn cadetship part4 Grid



188.) C. 7

Tutorial video for detailed solution:
<https://youtu.be/1a8KOMxehUQ>
or search on youtube:

Leonalyn Value of X when 2x



189.) D. $120\pi \text{ cm}^2$

190.) A. 54 cm^2

191.) A. 154.02 cm^2

Tutorial video for detailed solution:
<https://youtu.be/6eHQMgPeow>

or search on youtube: **Leonalyn Cadetship part3 trapezoid**



192.) A. 270°

193.) C. 12.5 cm

194.) A. 9

195.) B. 120°

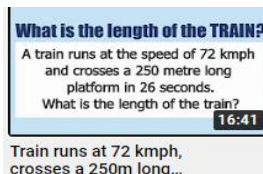
Tutorial video for detailed solution: https://youtu.be/jVY3iEw_Ee4
or search on youtube: **Leonalyn Geometry Compliment**



196.) D. 270 meters

Tutorial video for detailed solution:
<https://youtu.be/r3XxkA2p9ik>
or search on youtube:

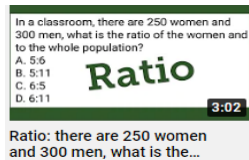
Leonalyn Train runs 72 kmph



197.) B. 5:11

Tutorial video for detailed solution:
<https://youtu.be/OruBQ7J-BgE>
or search on youtube:

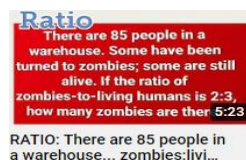
Leonalyn Ratio 250 women 300 men



198.) A. 34

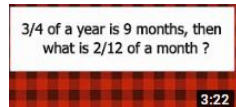
Tutorial video for detailed solution:
<https://youtu.be/TsPj8FzXWcM>
or search on youtube:

Leonalyn Ratio warehouse zombies



199.) C. 5days

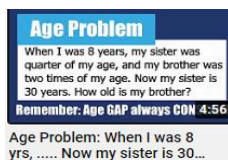
<https://youtu.be/v7d1VpjCZ-g>
or search on youtube: **Leonalyn year 9 months**



200.) B. 44 years old

Tutorial video for detailed solution:
https://youtu.be/3ziOhn_WSBs
or search on youtube:

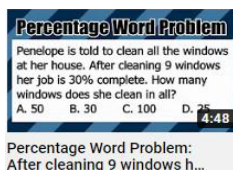
Leonalyn Age problem sister 30 years



201.) B. 30

Tutorial video for detailed solution:
https://youtu.be/zCY_uF2Q1QY
or search on youtube:

Leonalyn Penelope Windows



202.) D. $1\frac{3}{4}$

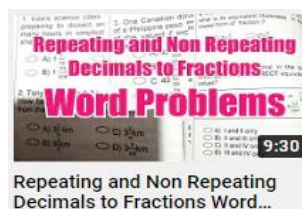
203.) C. $3\frac{2}{9} \text{ km}$

204.) D. $40\frac{24}{25}$

205.) A. $4/5$

206.) D. III and IV only

Tutorial video for detailed solution: https://youtu.be/RhViz_ZYMcQ
or search on youtube: **Leonalyn Canadian rational**



207.) A. 5:4:6

Tutorial video for detailed solution:

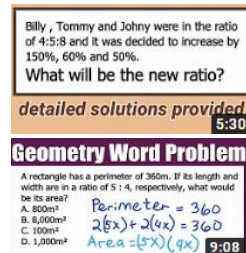
<https://youtu.be/FFdun7vdmTs>

or search on youtube: **Leonalyn ratio 4:5:8**

208.) B. $8,000\text{m}^2$

<https://youtu.be/Y5iNa6lJEtU>

or search on youtube: **Leonalyn rectangle perimeter**



209.) C. 17 yrs old

<https://youtu.be/pnii3ZUv90Y>

or search on youtube:

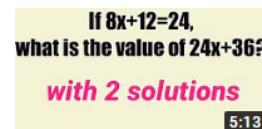
Leonalyn Age problem Jack Jill



210.) A. 72

https://youtu.be/DsI_M5OUdFo

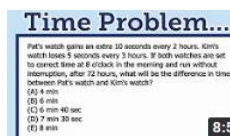
or search on youtube: **Leonalyn 8x+12=24**



211.) E. 8 min

<https://youtu.be/znfMWL2rMhc>

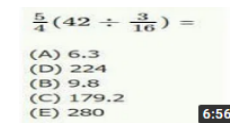
search on youtube: **Leonalyn Time Pat Kim**



212.) E. 280

<https://youtu.be/QKJGrqG0E-8>

search on youtube: **Leonalyn 5/4(42÷3/16)**



213.) A. 160,000

<https://youtu.be/QKJGrqG0E-8>

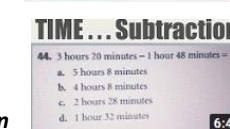
search on youtube: **Leonalyn Rounding product**



214.) D. 1 hr 32 mins

<https://youtu.be/a6IfBYRvyyC>

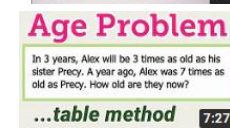
search on youtube: **Leonalyn Time Subtraction**



215.) A. 3 and 15

<https://youtu.be/MiQZutyVbwU>

search on youtube: **Leonalyn Age Precy**

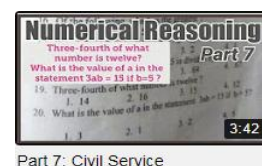


216.) B. 16

217.) B. 1

https://youtu.be/QqeWrU_kvdQ

search on youtube: **Leonalyn Part 7**



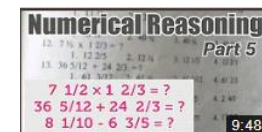
218.) C. $12\frac{1}{2}$

219.) C. $61\frac{1}{12}$

220.) A. $1\frac{1}{2}$

<https://youtu.be/9dmp0tnMYcQ>

search on youtube: **Leonalyn Part 5**

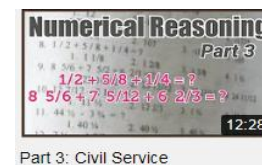


221.) C. $1\frac{3}{8}$

222.) C. $22\frac{11}{12}$

<https://youtu.be/zmDr6Y7Ynoo>

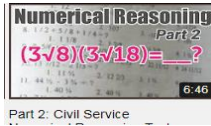
search on youtube: **Leonalyn Part 3 Fraction**



223.) A. 108

https://youtu.be/_o8dhLRZek8

search on youtube: **Leonalyn Part 2 Squareroot**



224.) D. 520

Tutorial video for detailed solution: <https://youtu.be/EIs-8wWA0Is>

or search on youtube: **Leonalyn increased 200 divided**

225.) D. 89

Tutorial video for detailed solution: <https://youtu.be/9-elmP-bOjw>

or search on youtube: **Leonalyn grade six pupil**

226.) C. P12.50

Tutorial video for detailed solution: <https://youtu.be/MshQkygJQLU>

or search on youtube: **Leonalyn basket green mangoes**

227.) A. P1,016

Tutorial video for detailed solution: <https://youtu.be/dw-zkYKxTrQ>

or search on youtube: **Leonalyn fisherman sold**

228.) D. P375,000

Tutorial video for detailed solution: <https://youtu.be/8CYw7iHMWDg>

or search on youtube: **Leonalyn his donation**

229.) B. 36

Tutorial video for detailed solution: <https://youtu.be/MucryWzYHvM>

or search on youtube: **Leonalyn value $X=2$ $Y=1$**

230.) C. 333

Tutorial video for detailed solution: <https://youtu.be/lCjmZLnZAJ4>

or search on youtube: **Leonalyn 148 is 4/9**

231.) B. $31+2X$

Tutorial video for detailed solution: <https://youtu.be/FwclyvQ4vD8>

or search on youtube: **Leonalyn Algebra 3(11+X)**

232.) D. 15, 40

Tutorial video for detailed solution: <https://youtu.be/PKAFLpU23Cw>

or search on youtube: **Leonalyn twice son age sum 70**

233.) D. 88 years

Tutorial video for detailed solution: <https://youtu.be/fJad87XGrNw>

or search on youtube: **Leonalyn 48 years John current**

234.) A. 8:30am

Tutorial video for detailed solution: <https://youtu.be/gyYvATBw3iE>

or search on youtube: **Leonalyn Speed overtake**

235.) A. 60 sq meters

Tutorial video for detailed solution: <https://youtu.be/G2ohROujb0Y>

or search on youtube: **Leonalyn diagonal rectangle**

236.) A. 262.5 kms

Tutorial video for detailed solution: https://youtu.be/_F53lq7UviY

or search on youtube: **Leonalyn car travels speed 75**

237.) B. $3 \frac{1}{3}$ hours

Tutorial video for detailed solution: https://youtu.be/33_B35PwCMw

or search on youtube: **Leonalyn marco dig ditch**

238.) D. $1 \frac{5}{7}$ hrs

Tutorial video for detailed solution: <https://youtu.be/c-Nl1i4e9il>

or search on youtube: **Leonalyn fill pool**

239.) C. 8/15

Tutorial video for detailed solution: <https://youtu.be/gAhyJW-t3Y4>

or search on youtube: **Leonalyn both worked**

240.) B. $\frac{3}{7}$

241.) A. $\frac{11}{30}$

Tutorial video for detailed solution: <https://youtu.be/oyRqZ1VYHXU>

or search on youtube: **Leonalyn part of job finished**

242.) B. 30, 20

Tutorial video for detailed solution: <https://youtu.be/yGBNjwyf1Bg>

or search on youtube: **Leonalyn grades coffee**

243.) D. 2 hours & 44 minutes

Tutorial video for detailed solution: <https://youtu.be/g4lf2w25mOE>

or search on youtube: **Leonalyn Math Teacher 25 test**

244.) A. P140

Tutorial video for detailed solution: https://youtu.be/qHHMqGb0_9k

or search on youtube: **Leonalyn marked them to sell**

245.) E. 20 ft

Tutorial video for detailed solution: <https://youtu.be/A8fk6OBdZL4>

or search on youtube: **Leonalyn coconut tree**

246.) D. 15

Tutorial video for detailed solution: https://youtu.be/84_qEcPtpZY

or search on youtube: **Leonalyn laundry women**

247.) D. 20 yo

Tutorial video for detailed solution: <https://youtu.be/tiwb58Ffd0M>

or search on youtube: **Leonalyn James Kevin Age**

248.) B. 400

Tutorial video for detailed solution: <https://youtu.be/jk9558jJe8k>

or search on youtube: **Leonalyn book sells**

249.) D. 80

Tutorial video for detailed solution: <https://youtu.be/BsYDYp111fU>

or search on youtube: **Leonalyn doubled divided**

250.) B. 60

Tutorial video for detailed solution: <https://youtu.be/7CkC2yFo6j0>

or search on youtube: **Leonalyn certain tripled divide**

251.) C. 19

Tutorial video for detailed solution: <https://youtu.be/CjhPgJ8rs2c>

or search on youtube: **Leonalyn one third consecutive**

252.) D. 24, 40, 30

Tutorial video for detailed solution: https://youtu.be/j_Rid71W8zs

or search on youtube: **Leonalyn first number 3/5**

<p>289.) A. 64 Tutorial video for detailed solution: https://youtu.be/12Qv22ASZ3Y or search on youtube: Leonalyn jeans shirts socks ratio</p> <p>290.) C. 2,378 Tutorial video for detailed solution: https://youtu.be/R4b-fDcE9Rs or search on youtube: Leonalyn ratio adults children</p> <p>291.) D. 4 Tutorial video for detailed solution: https://youtu.be/FsJITnvuhW4 or search on youtube: Leonalyn $18 \div 9 \times (9-7)$</p> <p>292.) B. 12 Tutorial video for detailed solution: https://youtu.be/zAs9mPcLgUk or search on youtube: Leonalyn $3+3 \times 3-3+3$</p> <p>293.) A. -12 Tutorial video for detailed solution: https://youtu.be/qqSfJZZ3Xfg or search on youtube: Leonalyn $2x-3y$ Two variables</p> <p>294.) C. 2,000 Tutorial video for detailed solution: https://youtu.be/-BYV1YN104k or search on youtube: Leonalyn ratio sum money distributed</p>	<p>295.) B. 10 Tutorial video for detailed solution: https://youtu.be/-VW4G7-klU or search on youtube: Leonalyn permutation combination people</p> <p>296.) B. 2 Tutorial video for detailed solution: https://youtu.be/GosAsqifCQs or search on youtube: Leonalyn combined ages three</p> <p>297.) A. 2:1 Tutorial video for detailed solution: https://youtu.be/M4ZMT1YpzTk or search on youtube: Leonalyn afcat liters water</p> <p>298.) D. 2,500 Tutorial video for detailed solution: https://youtu.be/izhUj3l50_A or search on youtube: Leonalyn ml of water container</p> <p>299.) D. 200 Tutorial video for detailed solution: https://youtu.be/IKEBI1QDddo or search on youtube: Leonalyn Fraction $1/5$ are A's</p> <p>300.) A. 8:30am Tutorial video for detailed solution: https://youtu.be/9v38YrhE958 or search on youtube: Leonalyn Work Carpenter slower than</p>
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Fb group: <https://www.facebook.com/groups/121644125187853/>

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



youtube channel

Let's Solve CSE related MATH

Ms. Leonalyn Tayone [Solving Math the easiest way]

CUSTOMIZ

Paano mag-self Review: (or search: Leonalyn Paraan Pumasa)

1. <https://youtu.be/cY9WMaMmaKk>
2. <https://youtu.be/SiZFsdcvSqw>