ASSIGNMENT 1

Numbers, Computation, Consumer Arithmetic

PAPER 2 (Structured)

#1 – June 2008 # 2, 4a	#6 – June 2003 # 2, 3a, 9a	#11 – January 2009 #1
#2 – June 2007 # 2, 3a	#7 – June 2002 # 2, 4a	#12 – January 2008 #1
#3 – June 2006 # 2, 3b	#8 - June 2001 # 2, 3a, 3c	#13 – January 2007 #1
#4 – June 2005 # 2, 3a	#9 – June 2000 # 2, 3	
#5 - June 2004 # 2, 3a	#10 – June 1999 # 2, 3a	

PAPER 1 (Multiple Choices)

- Written in scientific notation, 0.045 x 10⁻³ is
 - (A) 4.5 × 10⁻⁶
 - (B) 4.5 × 10⁻⁵
 - (C) 4.5 × 10⁻⁴
 - (D) 4.5 × 10⁻¹
- What percentage of 30 is 6?
 - (A) 5%
 - (B) 18%
 - (C) 20%
 - (D) 150%

- What is the value of the digit 2 in the number 48.621?
 - (A) $\frac{2}{100}$
 - (B) $\frac{2}{10}$
 - (C) 2
 - (D) 200
- 18.96 × 2.03 correct to two significant figures equals
 - (A) 0.38
 - (B) 38
 - (C) 38.10
 - (D) 380

- 5. 11.1 ÷ 0.01 equals
 - (A) 110
 - (B) 111
 - (C) 1100
 - (D) 1110
- 6. In scientific notation, 170.04 is written as
 - (A) 0.17004×10^3
 - (B) 1.7004 × 10²
 - (C) 17.004 × 101
 - (D) 1.7004 × 10⁻¹
- The number 3.14063 written correct to 3 decimal places is
 - (A) 3.140
 - (B) 3.141
 - (C) 3.146
 - (D) 3.150
- Express 0.12 as a fraction in its LOWEST terms
 - (A) $\frac{1}{8}$
 - (B) $\frac{1}{9}$
 - (C) $\frac{3}{25}$
 - (D) $\frac{6}{50}$

- The EXACT value of 37.26 ÷ 1.8 is 1 000
 - (A) 0.207
 - (B) 0.0207
 - (C) 20.7000

3

30

- (C) 20 700
- 10. What is the value of the digit 3 in the number 2341?
 - (A) (B)
 - (C) 300
 - (D) 3000
- What is the HIGHEST common factor of the set of numbers {54,72,90}?
 - (A) 9
 - (B) 18
 - (C) 90
 - (D) 1080
- 12. 25 × 130 is the same as
 - (A) (25 × 100) + 30
 - (B) (25+30) x 100
 - (C) $(25 \times 30) + (25 \times 100)$
 - (D) (100 × 30) + (100 × 25)

- The LARGEST prime number that is less than 100 is
 - (A) 91
 - (B) 93
 - (C) 97
 - (D) 99
- 14. If the simple interest on \$800 for 3 years is \$54, what is the rate of interest per annum?
 - (A) 44%
 - (B) 5%
 - (C) 2¹/₄%
 - (D) 4/9 %
- 15. $3\frac{1}{4}$ % of \$500 is
 - (A) \$ 1.62
 - (B) \$15.52
 - (C) \$16.00
 - (D) \$16.25
- A television set costs \$350 cash. When bought on hire-purchase, a deposit of \$35 is required, followed by 12 monthly payments of \$30. How much is saved by paying cash?
 - (A) \$10
 - (B) \$25
 - (C) \$40
 - (D) \$45

- 17. How much does a customer pay for an article marked at \$50.00 if a sales tax of 6% is charged?
 - (A) \$44.00
 - (B) \$47.00
 - (C) \$53.00
 - (D) \$56.00
- If \$7000 is borrowed at the rate of 5% per annum for 3 years, the simple interest is
 - (A) \$ 105
 - (B) \$ 210
 - (C) \$ 370
 - (D) \$1050
- If the sale of an article resulted in a loss of 20 per cent on the cost price, then the cost price as a percentage of the selling price is
 - (A) 75%
 - (B) 80%
 - (C) 120%
 - (D) 125%
- A salesman sells a car for \$11 000. If he is paid a commission of 4.5% for the first \$10 000 and 7.5% on the remainder, then the commission he receives is
 - (A) \$ 495
 - (B) \$ 525
 - (C) \$ 825
 - (D) \$1320

- A loan of \$8 000 was paid back in 2 years in monthly payments of \$400.00. The percentage profit on the loan was
 - (A) 5%
 - (B) 8¹/₃%
 - (C) $16\frac{2}{3}\%$
 - (D) 20%
- 22. $(-3)^2 + (-2)^2 =$
 - (A) -13
 - (B) -10
 - (C) 13
 - (D) 25
 - 23. How many centimetres are there in 1.5 metres?
 - (A) 0.015
 - (B) 15
 - (C) 150
 - (D) 1500
 - 24. Express $4\frac{3}{8}$ as a decimal correct to 3

significant figures

- (A) 4.30
- (B) 4.37
- (C) 4.38
- (D) 4.40

- 25. 3076 in standard form is
 - (A) 3.076 × 10⁻³
 - (B) 3.076 × 10⁻²
 - (C) 3.076×10²
 - (D) 3.076×10³
- 26. If 60% of a number is 90, what is the number?
 - (A) 30
 - (B) 54
 - (C) 150
 - (D) 180
- 27. The H.C.F. of 12, 15 and 60 is
 - (A) 1
 - (B) 3
 - (C) 12
 - (D) 60
- 28. $(\frac{1}{2})^3$ is the same as
 - (A) $-\frac{1}{8}$
 - (B) $-\frac{1}{6}$
 - (C) $\frac{1}{8}$
 - (D) $\frac{1}{6}$

- 29. If 3n is an odd number, which of the following is an even number?
 - (A) 3n+2n
 - (B) 3n+2
 - (C) 3n-2
 - (D) 3n-1
- 30. The next term in the sequence

1, 6, 13, 22, 33 is

- (A) 44
- (B) 45
- (C) 46
- (D) 52
- IfTT\$6.00 is equivalent to US\$1.00, then TT\$15.00 in U.S. dollars is
 - (A) \$0.25
 - (B) \$0.40
 - (C) \$2.50
 - (D) \$4.00
- 32. During a sale, a shop allows 20% discount off the marked price of clothing. What will a customer pay for a dress with a marked price of \$30?
 - (A) \$10
 - (B) \$20
 - (C) \$24
 - (D) \$30

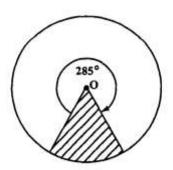
Item 33 refers to the table below.

House Insurance	50¢ per\$100
Contents Insurance	25¢ per\$100

- The above table shows the rates charged by an insurance company. How much will a person pay for his insurance, if his house is valued at \$50 000, and the contents at \$10000?
 - (A) \$225
 - (B) \$275
 - (C) \$450
 - (D) \$500
- 34. How much does a customer pay for an article marked at \$50.00 if a sales tax of 6% is charged?
 - (A) \$44.00
 - (B) \$47.00
 - (C) \$53.00
 - (D) \$56.00
- 35. A company employs 12 gardeners at \$26 per day, and 8 clerks at \$17 per day. What is the mean daily wage, in dollars, of the 20 employees?
 - (A) \$20.00
 - (B) \$21.50
 - (C) \$22.40
 - (D) \$31.50

- 36. A man pays 60 cents for every 200 m³ of gas used, plus a fixed charge of \$13.75. How much does he pay when he uses 55 000 m³ of gas?
 - (A) \$151.25
 - (B) \$165.00
 - (C) \$175.25
 - (D) \$178.75
- 37. $5\frac{2}{5} + 4\frac{3}{7} =$
 - (A) $9\frac{5}{35}$
 - (B) $9\frac{6}{35}$
 - (C) $9\frac{12}{35}$
 - (D) $9\frac{29}{35}$
- 38. What percentage of 340 is 425?
 - (A) 80%
 - (B) 85%
 - (C) 125%
 - (D) 152%

Item 39 refers to the following diagram.



- The fraction of the circle which has been shaded is
 - (A) $\frac{5}{24}$
 - (B) $\frac{8}{24}$
 - (C) $\frac{15}{24}$
 - (D) $\frac{19}{24}$
- 40. There are 40 students in a class. Girls make up 60% of the class. 25% of the girls wear glasses. How many girls in the class wear glasses?
 - (A) 6
 - (B) 8
 - (C) 10
 - (D) 15

- If \$560 is shared in the ratio 2:3:9, the difference between the largest and the smallest shares is
 - (A) \$ 80
 - (B) \$240
 - (C) \$280
 - (D) \$360
- 42. What is the HIGHEST common factor of the set of numbers {54, 72, 90}?
 - (A) 9
 - (B) 18
 - (C) 90
 - (D) 1080
- 43. 301 can be written as
 - (A) $3 \times 10^2 + 1$
 - (B) $3 \times 10^3 + 1$
 - (C) $3 \times 10^2 + 1 \times 10$
 - (D) $3 \times 10^3 + 1 \times 10$
- 44. By the distributive law, $49 \times 17 + 49 \times 3 =$
 - (A) 49+20
 - (B) 52+66
 - (C) 49 x 20
 - (D) 52 x 66

- If p sweets are sold for q cents, then one sweet is sold for
 - (A) $\frac{p}{q}$ cents
 - (B) pq cents
 - (C) $\frac{q}{p}$ cents
 - (D) (q p) cents
- 46. $3\frac{1}{4}$ % of \$500 is
 - (A) · \$ 1.62
 - (B) \$15.52
 - (C) \$16.00
 - (D) \$16.25
- Susan bought a calculator for \$120. She had to pay a sales tax of 10% on the price. How much change would she receive from \$140?
 - (A) \$ 8.00
 - (B) \$12.00
 - (C) \$28.00
 - (D) \$32.00

- 48. \$600 invested at simple interest for 2 years earns \$96. What is the rate of interest per annum?
 - (A) $\frac{1}{8}\%$
 - (B) $3\frac{1}{8}\%$
 - (C) 8%
 - (D) $12\frac{1}{2}\%$
- 49. A plot of land is valued at \$18 000. Land tax is charged at the rate of \$0.70 per \$100 value. What is the TOTAL amount of tax paid for the land?
 - (A) \$110.00
 - (B) \$126.00
 - (C) \$180.70
 - (D) \$257.15
- 50. A customer buys a table on hire purchase. He makes a deposit of \$306 and pays six monthly instalments of \$60 each. The TOTAL cost to the customer is
 - (A) \$360
 - (B) \$366
 - (C) \$666
 - (D) \$966

- 51. The H.C.F. of 12, 15 and 60 is
 - (A) 1
 - (B) 3
 - (C) 12
 - (D) 60
- 52. 0.875 written as a common fraction is
 - (A) $\frac{1}{4}$
 - (B) $\frac{1}{2}$
 - (C) $\frac{3}{4}$
 - (D) 7/8
- 53. The exact value of $2 \div (0.01)^2$ is
 - (A) 0.0002
 - (B) 0.0005
 - (C) 5000
 - (D) 20000
- 54. 0.386 x 0.06 =
 - (A) 0.02316
 - (B) 0.2316
 - (C) 2.313
 - (D) 23.16

- If \$350 is divided into two portions in the ratio 2:5, the smaller portion is
 - (A) \$70
 - (B) \$100
 - (C) \$175
 - (D) \$250
- 56. If 60% of a number is 90, what is the number?
 - (A) 30
 - (B) 54
 - (C) 150
 - (D) 180
- 57. The value of the digit 2 in 425.3 is
 - (A) 2 tenths
 - (B) 2 ones
 - (C) 2 tens
 - (D) 2hundreds
- 58. 99 x 101 has the same value as
 - (A) $(99 \times 100) + 1$
 - (B) (99 x 100) (99 x 1)
 - (C) $(99 \times 100) + (99 \times 1)$
 - (D) (99 x 100) (99 x 1)
- 59. What is the least number of plums that can be shared equally among 6, 9 or 12 children?
 - (A) 27
 - (B) 36
 - (C) 54
 - (D) 72

- 60. How much does a customer pay for an article marked at \$50.00 if a sales tax of 6% is charged?
 - (A) \$56.00
 - (B) \$53.00
 - (C) \$47.00
 - (D) \$44.00
- 61. A man bought a calf for \$200 and sold it for \$250. What was his gain as a percentage of the cost price?
 - (A) 5%
 - (B) 15%
 - (C) 20%
 - (D) 25%
- 62. The sum of $\frac{1}{2}$ and $\frac{1}{3}$ is
 - (A) 2
 - (B) $\frac{3}{5}$
 - (C) $\frac{5}{6}$
 - (D) $\frac{7}{6}$

- 63. The exchange rate for one United States dollar (US\$1.00) is two dollars and seventy cents in Eastern Caribbean currency (EC\$2.70). What is the value of US\$4.50 in EC currency?
 - (A) \$ 1.67
 - (B) \$ 6.00
 - (C) \$ 7.20
 - (D) \$12.15
- 64. If the simple interest on \$800 for 3 years is \$54, what is the rate of interest per annum?
 - (A) 44%
 - (B) 5%
 - (C) 21/4%
 - (D) $\frac{4}{9}$ %
- 65. Mary invested \$200 for 3 years at 5% per annum. John invested \$300 at the same rate. If they both received the same amount of money in interest, for how many years did John invest his money?
 - (A) 1½
 - (B) 2
 - (C) 3
 - (D) 10

- The cost price of a refrigerator is \$1850.00.
 A buyer who is given a discount of 5% for cash purchase will pay
 - (A) \$1942.50
 - (B) \$1845.00
 - (C) \$1757.50
 - (D) \$1350.00
- The simple interest on \$400 at 5% per annum for 2 years is given by
 - (A) \$\frac{400 \times 5 \times 2}{100}
 - (B) \$\frac{400 x 5}{2 x 100}
 - (C) \$ 400 x 2 5 x 100
 - (D) \$ \frac{400 \times 100}{2 \times 5}
- 68. 0.45 may be written as
 - (A) $\frac{9}{20}$
 - (B) $\frac{4}{5}$
 - (C) $\frac{9}{10}$
 - (D) $\frac{5}{4}$

- 69. How many centimetres are there in 1.5 metres?
 - (A) 0.015
 - (B) 15
 - (C) 150
 - (D) 1 500
- \$350 is shared in the ratio 2:5. The LARGER share is
 - (A) \$ 70
 - (B) \$100
 - (C) \$175
 - (D) \$250
- If 12½% of a sum of money is \$40.00, then the sum of money is
 - (A) \$ 5.00
 - (B) \$ 45.00
 - (C) \$320.00
 - (D) \$500.00
- 72. $\frac{3}{100}$ is the same value as
 - (A) 0.3%
 - (B) 3%
 - (C) 0.3%
 - (D) 0.03%
- The LARGEST prime number that is SMALLER than 100 is
 - (A) 91
 - (B) 93
 - (C) 97
 - (D) 99

- The next term in the sequence 1, 6, 13, 22, 33 is
 - (A) 44
 - (B) 45
 - (C) 46
 - (D) 52
- 75. P = [52, 77, 91, 124, 217]

Three members of the set P have a COMMON factor which is

- (A) 4
- (B) 7
- (C) 13
- (D) 31
- 76. Which of the following expressions does NOT have the same value as 49 x 20?
 - (A) 40 + 20 x 9 + 20
 - (B) 49 x 17 + 3 x 49
 - (C) 50 x 20 1 x 20
 - (D) 40 x 20 + 9 x 20
- 77. By selling an article for \$96 a profit of \$16 was made on the cost price. The profit as a percentage of the cost price is
 - (A) 16%
 - (B) 17%
 - (C) 20%
 - (D) 25%

- \$75 invested for 6 months yielded simple interest of \$2.00. What was the rate of interest?
 - (A) $\frac{1}{3}$ %
 - (B) $\frac{4}{9}\%$
 - (C) $\frac{4}{3}\%$
 - (D) $\frac{16}{3}$ %
- 79. A shopkeeper bought an article for \$50. He sold it and gained 20% profit. How many dollars did he gain?
 - (A) \$ 10
 - (B) \$ 25
 - (C) \$ 60
 - (D) \$100
- A toy was sold for \$24.00, at a profit of 20%. The cost price was
 - (A) \$ 4.00
 - (B) \$19.20
 - (C) \$20.00
 - (D) \$28.00
- 81. If 15² = 225 then the square root of 0.0225 is
 - (A) 0.015
 - (B) 0.15
 - (C) 1.5
 - (D) 15.0

- 0.45 written as a common fraction, in its simplest form, is
 - (A) 9/20
 - (B) 4/5
 - (C) $\frac{9}{10}$
 - (D) $\frac{5}{4}$
- 25 387 written as a number correct to 4 significant figures is
 - (A) 25 000
 - (B) 25 300
 - (C) 25 380
 - (D) 25 390
- 84. Eighty millimetres as a percentage of one metre is
 - (A) 8
 - (B) 80
 - (C) 800
 - (D) 8000
 - Item 85 refers to the chart below.

House Insurance 25¢ per \$100 Contents Insurance 50¢ per \$100

- 85. What is the total cost for house insurance of \$50 000, and contents insurance of \$10 000?
 - (A) \$175
 - (B) \$225
 - (C) \$450
 - (D) \$500

- 86. Since 235 x 48.7 = 11 444.5, then 23.5 x 0.487 =
 - (A) 11.4445
 - (B) 114.445
 - (C) 1 144.45
 - (D) 11 444.4
- The Highest Common Factor of 18, 24 and 36 is
 - (A) 6
 - (B) 18
 - (C) 36
 - (D) 72
- 88. By the distributive law, $49 \times 17 + 49 \times 3 =$
 - (A) 49 + 20
 - (B) 52 + 66
 - (C) 49 x 20
 - (D) 52 x 66
- 89. A man's annual income is \$45 000. His tax-free allowances total \$13 000. He has to pay a tax of 30% on his taxable income. The tax payable is
 - (A) 53 900.00
 - (B) \$ 9 600.00
 - (C) \$13,500,00
 - (D) \$17,400.00
- The overtime rate of pay which is oneand-a-half times the basic rate of \$12 per hour is
 - (A) \$18
 - (B) \$36
 - (C) \$54
 - (D) \$72
- \$75.00 is shared among 3 people in the ratio 2:4:9. How much is the LARGEST share?
 - (A) \$15.00
 - (B) \$25.00
 - (C) \$35.00
 - (D) \$45.00

- For his electricity, Mr Jones pays a fixed charge of \$12.50. He also pays 50 cents for each Kwh of electricity used. How much did he pay for using 75 Kwh of electricity.
 - (A) \$30.00
 - (B) \$37.50
 - (C) \$50.00
 - (D) \$87.50
- 93. Mr Duncan bought a table at a discount of 30% off the marked price, thus saving \$42. What was the marked price of the table?
 - (A) \$ 98
 - (B) \$110
 - (C) \$140
 - (D) \$182
- 94. The cash price of a tyre is \$90. This results from a discount of 25 per cent on the marked price. What is the marked price?
 - (A) \$ 67.50
 - (B) \$112.50
 - (C) \$120.00
 - (D) \$135.00
- 95. Each dress in a store was marked \$3.00 off the original price. A woman paid \$46.00 for 2 dresses that had the same sale price. What was the original price of one dress?
 - (A) \$20.00
 - (B) \$21.50
 - (C) \$24.50
 - (D) \$26.00
 - 96. What is 5% of \$40?
 - (A) \$ 2
 - (B) \$ 8
 - (C) \$20
 - (D) \$35

- 97. $\frac{3}{5}$ of 35 =
 - (A) 21
 - (B) 7
 - (C) 14
 - (D) 12
- 98. 0.75 written as a fraction is
 - (A) $\frac{1}{4}$
 - (B) $\frac{1}{2}$
 - (C) $\frac{3}{4}$
 - (D) $\frac{7}{8}$
- 99. The first three common multiples of 3, 4 and 6 are:
 - (A) 3, 4, 6
 - (B) 0, 1, 2
 - (C) 12, 24, 36
 - (D) 6, 8, 12
- 100. Let n be an even number, then the next even number greater than n is:
 - (A) 2n
 - (B) n − 2
 - (C) n+2
 - (D) $\frac{n}{2}$

- 101. Two numbers are in the ratio 4:5. The smaller number is 240. What is the larger number?
 - (A) 133
 - (B) 192
 - (C) 300·
 - (D) 720
- 102. The number 0.0325 in standard form is
 - (A) 3.25 x 10⁻⁴
 - (B) 3.25 x 10⁻³
 - (C) 3.25 x 10⁻²
 - (D) 3.25 x 10⁻¹
- 103. If 3n is an odd number, which of the following is an even number?
 - (A) 3n-2
 - (B) 3n-1
 - (C) 3n+2
 - (D) 3n + 2n
- 104. If US \$1.00 = EC \$2.70, what is the value of US \$4.50 in EC currency?
 - (A) \$ 1.67
 - (B) \$ 6.00
 - (C) \$ 7.20
 - (D) \$12.15
- 105. A man bought a goat for \$400 and sold it for \$500. His percentage profit was
 - (A) 10%
 - (B) 20%
 - (C) 25%
 - (D) 80%

- 106. A dress which costs \$180 is sold at a discount of 10%. The discount is
 - (A) \$ 1.80
 - (B) \$ 10.00
 - (C) \$ 18.00
 - (D) \$170.00
- 107. Mrs. Lee's salary is increased from \$1500 to \$2000. The initial salary expressed as a fraction of the new salary is
 - (A) $\frac{1}{4}$
 - (B) $\frac{1}{3}$
 - (C) $\frac{3}{4}$
 - (D) $\frac{4}{3}$
- 108. 29.94 x 0.5 is approximately
 - (A) 0.15
 - (B) 1.5
 - (C) 15
 - (D) 150
- 109. The Simple Interest on \$560 for 3 years at
 - $12\frac{1}{2}\%$ per annum is
 - (A) \$ 70
 - (B) \$210
 - (C) \$630 (D) \$770

- When the basic rate of pay is 36 cents, the overtime rate of pay at "time and a half" is
 - (A) 18 cents
 - (B) 36 cents
 - (C) 54 cents
 - (D) 72 cents
 - 111. An article costs \$1 424. It may be purchased by depositing \$560 and making monthly payments of \$48. How many months are required to complete payment?
 - (A) 18
 - (B) 24
 - (C) 30
 - (D) 36
 - 112. The city government charges 5% property tax on the annual rental value of any property. What is the tax payable on a property which has a rental value of \$135 per month?
 - (A) \$ 27.00
 - (B) \$ 81.00
 - (C) \$128.00
 - (D) \$141.00
 - 113. A man's annual salary is \$45 000. His taxfree allowances total \$13 000. He has to pay a tax of 35% on his taxable income. The tax payable is
 - (A) \$ 35 x 13 000
 - (B) $s = \frac{35 \times 45000}{100}$
 - (C) $\$\left(\frac{35 \times 45000}{100}\right) 13000\right)$
 - (D) \$ 35 x (45000-13000)

- 114. Which of the following is a prime number?
 - (A) 252
 - (B) 255
 - (C) 257 (D) 261
- 115. 0.75 written as a common fraction is
 - (A) $\frac{1}{4}$
 - (B) $\frac{1}{2}$
 - (C) $\frac{3}{4}$
 - (D) $\frac{7}{8}$
- 116. The overtime rate of pay at "time and a half" corresponding to a flat rate of 36 cents is
 - (A) 18 cents
 - (B) 36 cents
 - (C) 54 cents
 - (D) 72 cents
- 117. Ann and Betty shared a sum of money in the ratio 2:3 respectively. Ann received \$120. What was Betty's share?
 - (A) \$ 72
 - (B) \$ 80
 - (C) \$180
 - (D) \$300

- 118. An electrician charges \$7.00 as a fixed charge for house visits, plus \$4.00 per hour for repair jobs. If he charges a housewife \$42.00 for repair work done at her house, how many hours did he work?
 - (A) $5\frac{3}{7}$
 - (B) $6\frac{9}{20}$
 - (C) $8\frac{3}{4}$
 - (D) $10\frac{1}{2}$
- A sales tax of 7.5% is to be charged on a bill of \$200. The sales tax is
 - (A) \$ 15.00
 - (B) \$185.00
 - (C) \$192.50
 - (D) \$207.50
- 120. $12\frac{1}{2}\%$ of a sum of money is \$40.

What is the sum of money?

- (A) \$ 45
- (B) \$ 320
- (C) \$ 500
- (D) \$4 500
- 121. $\sqrt{8.2} = 2.86$,

What is $\sqrt{8.2 \times 10^2}$?

- (A) 1.43 x 10
- (B) 2.86 x 10
- (C) 1.43 x 10²
- (D) 2.86 x 10²

- 122. The highest common factor of 18, 24 and 36 is
 - (A) 6
 - (B) 18
 - (C) 36
 - (D) 72
- 123. A merchant bought eggs at \$2.00 a dozen and sold them at \$2.50 a dozen. His percentage profit was
 - (A) 4%
 - (B) 20%
 - (C) 25%
 - · (D) 40%
- 124. A shopkeeper sells a box of candles for \$15.75. If he bought the box for \$11.25, what is his percentage profit?
 - (A) 28⁴/₇%
 - (B) 40%
 - (C) 250%
 - (D) 350%
- 125. A car was bought for \$10 000 in January 1997. If the car depreciates by 10% every year, what is its worth in January 2000.
 - (A) \$7 290
 - (B) \$8 000
 - (C) \$9 000
 - (D) \$3 000
- 126. The simple interest on \$15 000 for three months at 10% per annum is
 - (A) \$ 375
 - (B) \$ 500
 - (C) \$1500
 - (D) \$4500

- 127. $3.3 \times 2.5 + 5.7 \times 2.5 =$
 - (A) 8.25
 - (B) 9.00
 - (C) 13.25
 - (D) 22.50
- 128. $0.386 \times 0.06 =$
 - (A) 0.02316
 - (B) 0.2316
 - (C) 2.316
 - (D) 23.16
- During a sale, a shop allows 20% discount on all purchases. What will a customer pay for a dress normally priced at \$30?
 - (A) \$10
 - (B) \$20
 - (C) \$24
 - (D) \$30
- 130. A television set costs \$350 cash.

 When bought on hire purchase, a deposit of \$35 is required, followed by 12 monthly payments of \$30. How much is saved by paying cash?
 - (A) \$10
 - (B) \$25
 - (C) \$40
 - (D) \$45

- 131. Three lights flash intervals of 4, 6 and 10 seconds respectively. They are started together. How soon after will they next flash together?
 - (A) 40 secs
 - (B) 60 secs
 - (C) 120 secs
 - (D) 140 secs
 - 132. If (P 3) is the largest of four consecutive odd numbers, then the smallest is
 - (A) P+3
 - (B) P + 5
 - (C) P-11
 - (D) P 9
 - 133. Two dozen articles were bought for \$5.04 and sold at 14 ¢ each. The loss expressed as a percentage of the buying price is
 - (A) 2.8%
 - (B) 33 ½ %
 - (C) 50%
 - (D) 97.2%
 - 134. The value of 2 in the number 425.3 is
 - (A) 2 tenths
 - (B) 2 ones
 - (C) 2 tens
 - (D) 2 hundreds

- 135. An alloy consists of 4 parts of one metal to 5 parts of another. How much of the first metal should be mixed with 40 kg of the second?
 - (A) 32 kg
 - (B) 50 kg
 - (C) 160 kg
 - (D) 200 kg
- 136. Given that 2035_n is a number in base n and that n≤ 8, then a possible values of n is
 - (A) {2, 3, 5}
 - (B) {3, 5, 6}
 - (C) {4, 6, 7}
 - (D) {6, 7, 8}
- 137. The interest rate on investments in a bank decreased from 8 ¹/₂ % per annum to 6% per annum. The difference in annul interest

on a deposit of \$2 000 is

- (A) \$ 30
- (B) \$ 50
- (C) \$ 120
- (D) \$ 170
- The number 0.0325 in standard form is
 - (A) 3.25 x 10⁻⁴
 - (B) 3.25 x 10⁻³
 - (C) 3.25 x 10⁻²
 - (D) 3.25 x 10⁻¹

- 139. An article was sold for \$375 at a profit of 25% on the cost price. The cost price
 - (A) \$300.00
 - (B) \$350.00
 - (C) \$400.00
 - (D) \$468.75
- 140. A salesman is paid 5% of his sales as commission. His sales for last month were \$2020. How much commission was he paid?
 - (A) \$ 11.00
 - (B) \$ 20.20
 - (C) \$101.00
 - (D) \$110.00
- The number 3.14063 written correct to 3 decimal places is
 - (A) 3.140
 - (B) 3.141
 - (C) 3.146
 - (D) 3.150
- 142. The sum of \$7000 is borrowed at the rate of 5% per annum. The simple interest at the end of 3 years will be
 - (A) \$ 105 (B) \$ 210
 - (C) \$ 310
 - (D) \$1050

- 143. If 4.3 x 0.37 = 1.591, then 0.43 x 370 is
 - (A) 1,591
 - (B) 15.91
 - (C) 159.1
 - (D) 1591.0
- 144. A woman buys a pair of shoes at a sale. She pays \$60, saving \$15 on the normal price. The percentage discount on the shoes is
 - (A) 20
 - (B) 25
 - (C) $33\frac{1}{3}$
 - (D) 80
- 145. Tom bought a pen for \$60 and sold it to gain 20% on his cost price. How much money did he gain?
 - (A) \$12
 - (B) \$40
 - (C) \$72
 - (D) \$80
- 146. The price of an article is increased by 20% to a new price was
 - (A) \$192
 - (B) \$200
 - (C) \$216
 - (D) \$288

- 147. The interest rate on investments in a bank decreased from 8 ¹/₂ per cent per annum to 6 per cent. The difference in annual interest on deposit of \$2 000 is
 - (A) \$ 30
 - (B) \$ 50
 - (C) \$120
 - (D) \$170
- 148. The first four multiples of 4 are
 - (A) 1, 2, 3, 4
 - (B) 4, 8, 12, 16
 - (C) 4, 16, 64, 256
 - (D) 4, 40, 400, 4000
- 149. If 60% of a number is 90, what is the number?
 - (A) 30
 - (B) 54
 - (C) 150
 - (D) 180
- 150. The simple interest on \$600 for 4 years at 5% per annum is
 - $(A) \qquad \$ \frac{100 \times 5}{600 \times 4}$
 - (B) $\$\frac{600 \times 4}{100 \times 5}$
 - (C) $\$\frac{100 \times 5 \times 4}{600}$
 - (D) $\$\frac{600 \times 5 \times 4}{100}$

- 151. $6\frac{1}{4}\%$ of \$300 is
 - (A) \$ 1.87
 - (B) \$ 18.75
 - (C) \$ 187.50
 - (D) \$1875.00
- 152. If \$560 is shared in the ratio 2:3:9, the difference between the largest and smallest shares is
 - (A) \$ 80
 - (B) \$240
 - (C) \$280
 - (D) \$360
- 153. A woman buys a pair of shoes at a sale. She pays \$60, saving \$15 on the shoes is
 - (A) 20
 - (B) 25
 - (C) 33 ½
 - (D) 80
- 154. The value of a car depreciated by 5% each year. How much, to the nearest ten dollars, will a car bought for \$5000 be valued after 2 years?
 - (A) \$3750
 - (B) \$4500
 - (C) \$4510
 - (D) \$4990

- The FIRST three common multiples of 3, 4 and 6 are:
 - (A) 3,4,6
 - (B) 0,1,2
 - (C) 6,8,12
 - (D) 12,24,36
- 156. $-\left(\frac{1}{2}\right)^3$ is the same as
 - (A) $-\frac{1}{8}$
 - (B) $-\frac{1}{6}$
 - (C) $\frac{1}{8}$
 - (D) $\frac{1}{6}$
- 157. By the distributive law $49 \times 17 + 49 \times 3 =$
 - (A) 52+66
 - (B) 52×66
 - (C) 49+20
 - (D) 49×20
- What is the value of the digit 2 in the number 48.621?
 - (A) $\frac{2}{100}$
 - (B) $\frac{2}{10}$
 - (C) 2
 - (D) 200

- 159. A man's annual salary is \$45 000. His taxfree allowances total \$13 000. He has to pay a tax of 35% on his taxable income. The tax payable is
 - (4) \$ 4550.00
 - (B) \$11200.00
 - (C) \$15750.00
 - (D) \$20300.00
- Adress which costs \$180 is being solidata discount of 10%. The amount of the discount is
 - (A) \$ 1.30
 - (B) \$10.00
 - (C) \$18.00
 - (D) \$170.00
- 161. If the simple interest on \$800 for 3 years is \$54, what is the rate of interest per annum?
 - (A) $\frac{4}{9}\%$
 - (B) $2\frac{1}{4}\%$
 - (C) 5%
 - (D) 44%
- 162. Tom bought a pen for \$60 and sold it to gain 20% on his cost price. How much money did he gain?
 - (A) \$12
 - (B) \$40
 - (C) \$72
 - (D) \$80

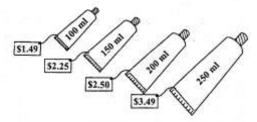
- 163. A salesman sells a car for \$11 000. If he is paid a commission of 4.5% for the first \$10 000 and 7.5% on the remainder, then the commission he receives is
 - (A) \$ 495
 - (B) \$ 525
 - (C) \$ 825
 - (D) \$1 320
- A company employs 12 gardeners at \$25 per day, and 8 clerks at \$17 per day. What is the mean daily wage, in dollars, of the 20 employees?
 - (A) \$20.00
 - (B) \$21.50
 - (C) \$22.40
 - (D) \$31.50
- Mary invested \$200 for 3 years at 5% per annum. John invested \$300 at the same rate. If they both received the same amount of money in interest, for how many years did John invest his money?
 - (A) $1\frac{1}{2}$
 - (B) 2
 - (C) 3
 - (D) 10
- Mr. Duncan bought a table at a discount of 30% thus saving \$42. What was the marked price of the table?
 - (A) \$ 98
 - (B) \$110
 - (C) \$140
 - (D) \$182

- 167. The number 3.14063 written correct to 3 decimal places is
 - (A) 3.140
 - (B) 3.141
 - (C) 3.146
 - (D) 3.150
- 168. Express 0.12 as a fraction in its lowest terms
 - (A) 1/9
 - (B) 3 25
 - (C) 1/8
 - (D) $\frac{6}{50}$
- 169. What number when added to $1\frac{1}{3}$ gives 2?
 - (A) $\frac{1}{3}$
 - (B) 2 3
 - (C) 1²
 - (D) 3¹/₃
- 170. John, Peter and Mary shared a sum of money in the ratio 2: 4: 9. John and Peter together received \$360. How much money in all was shared?
 - (A) \$480
 - (B) \$540
 - (C) \$600
 - (D) \$900
- 171. 25 × 130 is the same as
 - (A) (25 × 100) + 30
 - (B) (25+30) × 100
 - (C) (25×30)+(25×100)
 - (D) $(100 \times 30) + (100 \times 25)$

- 172. What is the value of the digit 3 in the number 2341?
 - (A) 3
 - (B) 30 (C) 300
 - (D) 3000
- 173. A woman buys a pair of shoes at a sale. She pays \$60, saving \$15 on the normal price. The percentage discount on the shoes is
 - (A) 20
 - (B) 25
 - (C) 33
 - (D) 80
- 174. A plot of land is valued at \$18 000. Land tax is charged at the rate of \$0.70 per \$100. What is the total amount of tax to be paid for the land?
 - (A) \$110.00
 - (B) \$126.00
 - (C) \$180.70
 - (D) \$257.15
- 175. A television set costs \$350 cash. When bought on hire-purchase, a deposit of \$35 is required, followed by 12 monthly payments of \$30. How much is saved by paying cash?
 - (A) \$10
 - (B) \$25
 - (C) \$40
 - (D) \$45
- 176. A salesman is paid 5% of his sales as commission. His sales for last month were \$2 020. How much commission was he paid?
 - (A) \$ 11.00
 - (B) \$ 20.20
 - (C) \$101.00
 - (D) \$110.00

- 177. How much does a customer pay for an article marked at \$50.00 if a sales tax of 6% is charged?
 - (A) \$44.00
 - (B) \$47.00
 - (C) \$53.00
 - (D) \$56.00

Item 22 refers to toothpaste which is sold in four different tubes.



- 178. Which amount is the best buy?
 - (A) 100 ml
 - (B) 150 ml
 - (C) 200 ml (D) 250 ml
- 179. The exact value of $6 \div (0.0003)$ is
 - (A) 200
 - (B) 2 000
 - (C) 20 000
 - (D) 200000
- 180. 0.0346 written in standard form is
 - (A) 3.46 x 10²
 - (B) 3.46 x 10
 - (C) 3.46 x 10⁻¹
 - (D) 3.46 x 10⁻²

181.
$$\sqrt{17^2 - 15^2}$$

- (A)
- (B) 2
- (C) 8
- (D) 16
- Express 4³/₈ as a decimal correct to 3 significant figures
 - (A) 4.30
 - (B) 4.37
 - (C) 4.38
 - (D) 4.40
- 183. What is the Highest Common Factor of the set of numbers {54,72,90}?

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- (A)
- (B) 18
- (C) 90
- (D) 1080
- 184. What is the value of the digit 2 in the number 48.621?
 - (A) $\frac{2}{100}$
 - (B) $\frac{2}{10}$
 - (C) 2
 - (D) 200
- 185. By the distributive law 49x17+49x3=
 - (A) 52+66
 - (B) 52x66
 - (C) 49+20
 - (D) 49x20

- 186. If p sweets cost q cents, then the cost of one sweet is
 - (A) $\frac{p}{q}$ cents
 - (B) pq cents
 - (C) $\frac{q}{p}$ cents
 - (D) (q p) cents
- A dress which costs \$180 is being sold at a discount of 10%. The amount of the discount is
 - (A) \$ 1.80
 - (B) \$10.00
 - (C) \$18.00
 - (D) \$170.00
- 188. An article bought for \$125 was sold for \$175. The percentage profit was
 - (A) 28.6
 - (B) 40
 - (C) 50
 - (D) 71.4
 - 189. Tombought apen for \$60 and sold it to gain 20% on his cost price. How much money did he gain?
 - (A) \$12
 - (B) \$40
 - (C) \$72
 - (D) \$80