AHMES SECONDARY SCHOOL PRE

FORM ONE HOLIDAY PACKAGE

MATHEMATICS

- 1. Given that p = 13.56, q = 17.005 and r = 9.58. By rounding each of the numbers above correct to significant figure, calculate the value of M if M $= \frac{pq}{r}$.
- 2. (a) If a: b = 2: 3 and b: c = 5: 6. Find a: b: c
 (b) Find the value of x if 5x: 3 = x + 2: 3
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- 3. A man sold his car at 1,200,000/= and made a loss of 30% Find the buying price.
- 4. Find the difference between LCM and GCF of 21,35 and 56.
- 5. Evaluate $(\frac{2}{5} + \frac{3}{10}) \times \frac{4}{15} \div \frac{1}{3}$
- 6. Express 0.08 in the form of $\frac{a}{b}$ where a and b are integers and $b \neq 0$
- 7. Express 0.96 in the form of $\frac{a}{b}$ in its simplest form then evaluate
 - i. a + b
 - ii. b a
 - iii. ab
- 8. The total mass of cotton harvested in Kwimba district was 17,452.225 kg. Round off this number to the nearest
 - i. Hundreds
 - ii. Hundredths
- 9. (a) Convert 2.53 into improper fraction.
 - (b) Estimate the value of 4.1×0.082
- 10. The age of Derick is $\frac{1}{8}$ the age of his father. If the sum of their ages is 63 years. Find their ages.
- 11. Find the smallest number of sweet that can be put into bags with either contain 9, 15 or 20 sweets with none left over.
- 12. Express 0.05473
 - i. Correct to three (3) significant figures.
 - ii. Correct to three (3) decimal places.
 - iii. In standard form

- 13. The ratio of men: women: children living in Muza village is 6:7:3. If there are 42,000 women, find how many:
 - i. Children live in Mkuza village
 - ii. People altogether
- 14. Express 0.105 in the form of $\frac{a}{b}$ where a and b are integers and $b \neq 0$
- 15. The price of TV set which includes V.A.T is Tshs 140,800/= if the rate of V.A.T is 30%, Find the price of the TV before V.A.T was added
- 16. Change 0.103 into fraction
- 17. The numbers 28,41,42,59 and 70 belong to the set of natural numbers using these numbers: Calculate the difference between the Least common multiple (LCM) of the prime numbers and the Greatest common factor (GCF) of the remaining numbers.
- 18. Rearrange the order of the digits in the number 5879613 to make it
 - i. the largest possible number
 - ii. the smallest possible number
- 19. Mary was given 60,000 shillings by her mother. She spent 35% of the money to buy shoes and 10% of the remaining money to buy books. How much money remained?
- 20. Mr. Ngassa set an examination weighing a total of 96 marks with the following distribution: 20% of the marks were awarded for reading, 40% for writing, 15% for practical and the remaining percentage for spelling. Find the marks that were awarded for spelling.
- 21. Three airplanes arrived at Kilimanjaro International Airport (KIA) at the interval of 30 minutes, 40 minutes and 60 minutes. If all three airplanes arrived at KIA at 2:00 p.m. On Saturday, when and at what time would they arrived together again?
- 22. By selling a juice at 700/= a shopkeeper makes a profit of 40%. what will be the percentage loss if the juice could be sold at 425/=
- 23. Find the LCM and GCF of all prime numbers between 25 and 32.
- 24. Write the number 7.01459 correct to
 - i. Three decimal places
 - ii. Five significant figures