**NAME.....................................................................................ADM NO.................CLASS.......**

**SACRED HEART HIGH SCHOOL**

**TERM 1 END OF TERM EXAMINATION**

**FORM 1 MATHEMATICS**

**TIME: 2 HOURS**

**Instructions**

Answer all the questions in the spaces provided.

1. Evaluate 89.04 + 69.046 + 0.00098. Give you answer to 3 dp. (2 mks)
2. What is the difference between 15 and -6. (2 mks)
3. Evaluate 72 x 43. (3 mks)
4. Evaluate 11.2 x 7.2 (3 mks)

0.63

1. Find the L.C.M of 30, 56 and 72 (4 mks)
2. Simplify 6 + 36 ÷ 9 + 14 ÷ 2 x 5 (3 mks)
3. Express the following as products of prime factors.

i) 2744 (2 mks)

ii) 9520 (2 mks)

iii) 175 x 189

1. All prime numbers less than ten are arranged in descending order to form a number.

a) Write down the number formed. (1 mk)

b) State the total value of the second digit in the number formed above. (2 mks)

1. Write 7038025 in words. (2 mks)
2. In 1998, a car used petrol worth shs 165 per day. How much money did the owner spend on petrol in the month of February? (3 mks)
3. Test whether 59484 is divisible by 6. (3 mks)
4. Three ropes of length 476, 336 and 630m are cut into pieces of equal length. Find the greatest possible length for these pieces if no parts of the rope are left over. (3 mks)
5. Convert 0.014 to a fraction in its simplest form. (3 mks)
6. Evaluate ¼ of (51/6 – 21/3) ÷ 2/3 + 37/11 . (3 mks)
7. Arrange the following fractions in ascending order (3 mks)

1/4 , 7/8, 3/16, 4/24

1. The GCD of two numbers is 8 and their L.C.M is 360. If one of the numbers is 72, find the other number. (4 mks)
2. Round off the following numbers to the nearest numbers indicated in the brackets. (3 mks)

a) 436 (10)

b) 5679015 (1000)

c) 9830015 (1,000,000)

1. Work out the following (4 mks)

-8 + (-5) x (-8) – (-6)

-3 + (-8) ÷ 2 x 4

1. Joan borrowed shs 150,000 from a friend. She paid back shs.25,000 in the first month, shs 15,000 in the second month and shs.34,000 in the third month. She paid the rest in equal amounts for two months. How much did she pay for each of the last two months? (5 mks)
2. What is the smallest number that should be added to 3462 to get a number exactly divisible by 11. (3 mks)
3. A diver jumps from a cliff 19m above sea level and reaches a depth 6m below sea level. How far did he dive? (2 mks)
4. A company made a profit of Kshs.4972738. Two newspapers reported this profit, one to the nearest million and the other to the nearest ten thousand. What was the difference in the figures in the newspapers? (4 mks)
5. A trader bought 17 trousers costing shs 525 each, 23 shirts costing shs 347 each and 32 T-shirts costing shs.195 each. How much did he pay? (5 mks)
6. Test whether 975420 is divisible by 9. (2 mks)
7. A trader had a bag of beans. When he packed the beans in 6 kg, 8kg or 9kg packets, 1kg was left over every time. What is the smallest amount of beans that he had. (4 mks)
8. In a school with two streams, there are four classes. Each stream has 45 students and each student was given 15 exercise books. How many exercise books were issued to the whole school? (4 mks)
9. Evaluate 0.21 + 0.7 (3 mks)

4.2 – 2.9

1. A room measuring 3.5m and 4.5m is to be covered with tiles.

a) Find the length of the largest tile that can be used without requiring any cutting. (4 mks)

b) How many such tiles will be required to cover the whole room? (3 mks)

c) Each tile costs shs.72 per piece and labour shs. 800.

i) What is the total cost of buying the tiles? (2 mks)

ii) Total amount of money required for this work? (2 mks)