

Seven Star International School Bani

Class --- 5th

Subject --- Maths

Max Marks 30

Section A. ($10 \times 1 = 10$ marks)

MCQ

1. Which of the following is a multiple of 7?

- a) 12 ☒ b) 21 c) 30 d) 45

2. The factors of 12 are:

- ☒ a) 1, 2, 3, 4, 6, 12 b) 1, 2, 3, 6 c) 2, 3, 4, 6 d) 1, 12

3. Which number is a factor of 24 but not a multiple of 6?

- ☒ a) 4 ☒ b) 8 c) 12 d) 24

4. The first three multiples of 9 are:

- ☒ a) 9, 18, 27 b) 9, 10, 11 c) 18, 27, 36 d) 9, 19, 29

5. If 15 is a factor of a number, which of the following must also be a factor?

- ☒ a) 3 b) 7 c) 10 d) 20

6. Which of these is a common multiple of 4 and 6?

- a) 8 ☒ b) 12 c) 18 ☒ d) 24

Fill in the Blanks (2 questions)

7. The number 1 is a factor of every number.

8. The LCM of 5 and 8 is 40.

True / False (2 questions)

9. A prime number has exactly two factors. *(True / False)* ☒



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Teacher's Signature

Signature of Principal/Administrator

$$12-30 - \text{hcf} = 6$$

$$6-57 = 3$$

10. Every multiple of 6 is also a multiple of 3. *(True / False)*

Section B ($5 \times 2 = 10$ marks)

11. Find whether 7595 and 6528 are divisible by 5 or not.

12. Find HCF of 12, 30 and 57 by long division method. 3

13. Find HCF of 210, 336 and 504 by prime factorization method. 42

14. Find the LCM of 84, 90 and 120 by division method. 2520

15. A farmer has 56 cows and 84 goats. He wants to divide them into groups of equal size. What is the largest number of animals per group? 28

$$56 = 2^3 \times 7$$

$$84 = 2^2 \times 3 \times 7$$

$$\text{hcf}(56, 84) = 28$$

Section C ($2 \times 3 = 6$ marks)

16. The traffic light at three different roads change after 48s, 72s and 108s. If they all change together at 8:00 AM, when will they change together again? 4:32 AM

8:07:12 AM

$$48 = 2^4 \times 3$$

$$72 = 2^3 \times 3^2$$

$$108 = 2^2 \times 3^3$$

17. The product of two numbers is 240. If their HCF is 4, find their LCM. 60

Section D ($1 \times 4 = 4$ marks)

18. 3 traffic lights at three different road crossing change after every 30 second, 48 second and 60 seconds respectively. If all of them change simultaneously at 8:00 a.m. 2:40

a). After how many seconds they will change simultaneously? 240 - LCM

b). What is the time at that moment and name the colour of light meant to stop. 8:04 - Red



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