KMA Girls and Boys Primary School

Nayabad Campus

Name: _____ Class/Grade: _____

Lets Share Knowledge

HCF and LCM

Worksheet 1

Grade 5

HCF (Highest Common Factor): The greatest number that divides the given numbers exactly.

LCM (Least Common Multiple): The smallest number that is a multiple of the given numbers.

A. Find the HCF of the following numbers using Prime Factorization.

1) 12 and 18

12

2	12
2	
3	
	1

18

2	18
3	
3	
	1

Common prime factors: _____

HCF = _____

2) 24 and 36

24

2	24
2	
2	
3	
	1

36

2	36
2	
3	
3	
	1

Common prime factors: _____

HCF = _____

3) 30 and 45

30

2	30
3	
5	
	1

45

3	45
3	
5	
	1

Common prime factors: _____

HCF = _____

B. Find the LCM of the following numbers using Prime Factorization.

4) 12 and 18

12

2	12
2	
3	
	1

18

2	18
3	
3	
	1

LCM = _____

5) 24 and 36

24

2	24
2	
2	
3	
	1

36

2	36
2	
3	
3	
	1

LCM = _____

6) 30 and 45

30

2	30
3	
5	
	1

45

3	45
3	
5	
	1

LCM = _____

C. Word Problems

7) Two ribbons are 15 cm and 20 cm long. Find the greatest length of ribbon that can be cut exactly to get equal pieces from both ribbons. (HCF)

Answer: _____ cm

8) A bell rings every 20 minutes and a siren rings every 30 minutes. After how many minutes will both the bell and the siren ring together again? (LCM)

Answer: _____ minutes

D. Mixed Practice

9) HCF of 16 and 24 = _____	10) HCF of 28 and 42 = _____	11) HCF of 36 and 60 = _____
12) LCM of 14 and 21 = _____	13) LCM of 16 and 20 = _____	14) LCM of 18 and 24 = _____
15) HCF of 48 and 72 = _____	16) LCM of 12 and 15 = _____	17) HCF of 45 and 75 = _____

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