

KMA Girls and Boys Primary School

Nayabad Campus

Name: _____

Class/Grade: _____



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	18
2 12	2 18
2	3
3	3
1	1

Common prime factors: _____

HCF = _____

2) 24 and 36

24	36
2 24	2 36
2	2
2	3
3	3
1	1

Common prime factors: _____

HCF = _____

3) 30 and 45

30	45
2 30	3 45
3	3
5	5
1	1

Common prime factors: _____

HCF = _____

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

4) 12 and 18

12	18
2 12	2 18
2	3
3	3
1	1

LCM = _____

5) 24 and 36

24	36
2 24	2 36
2	2
2	3
3	3
1	1

LCM = _____

6) 30 and 45

30	45
2 30	3 45
3	3
5	5
1	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 = _____