

10. GCF and LCM

Greatest Common Factor (GCF) & Least Common Multiple (LCM)

GCF = the largest factor shared by two numbers **LCM** = the smallest multiple shared by two numbers

a) Find the GCF and LCM of 12 and 18

Factors of 12: 1, 2, 3, 4, **6**, 12

Factors of 18: 1, 2, 3, **6**, 9, 18

GCF(12,18) = **6**

Multiples of 12: 12, 24, **36**, 48, 60, 72...

Multiples of 18: 18, **36**, 54, 72...

LCM(12,18) = **36**

b) Find the GCF and LCM of 8 and 12

Factors of 8:

Factors of 12:

GCF(8,12) =

Multiples of 8:

Multiples of 12:

LCM(8,12) =

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c) Find the GCF and LCM of 15 and 25

Factors of 15:

Factors of 25:

GCF(15,25) =

Multiples of 15:

Multiples of 25:

LCM(15,25) =

d) Find the GCF and LCM of 6 and 8

Factors of 6:

Factors of 8:

GCF(6,8) =

Multiples of 6:

Multiples of 8:

LCM(6,8) =

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e) Find the GCF and LCM of 9 and 12

Factors of 9:

Factors of 12:

GCF(9,12) =

Multiples of 9:

Multiples of 12:

LCM(9,12) =

f) Find the GCF and LCM of 24 and 36

Factors of 24:

Factors of 36:

GCF(24,36) =

Multiples of 24:

Multiples of 36:

LCM(24,36) =