Example

6 and 9

Multiples of 6	Multiples of 9
$1 \times 6 = 6$	$1 \times 9 = 9$
$2 \times 6 = 12$	$2 \times 9 = 18$
$3 \times 6 = 18$	$3 \times 9 = 27$
$4 \times 6 = 24$	$4 \times 9 = 36$
$5 \times 6 = 30$	$5 \times 9 = 45$
$6 \times 6 = 36$	$6 \times 9 = 54$
$7 \times 6 = 42$	$7 \times 9 = 63$
$8 \times 6 = 48$	$8 \times 9 = 72$
$9 \times 6 = 54$	$9 \times 9 = 81$
$10 \times 6 = 60$	$10 \times 9 = 90$
⋮	⋮

Multiples of 6: 6, 12, ⑱, 24, 30, ㊱, 42, 48, �54, 60, . . .
Multiples of 9: 9, ⑱, 27, ㊱, 45, �54, 63, 72, 81, 90, . . .
The first two common multiples of 6 and 9 are 18 and 36.

GCF & LCM

2 | 36, 120
2 | 18, 60
3 | 9, 30
    3, 10

GCF = 12
2×2×3

LCM = 360
2×2×3×3×10

940 × 493

Find the least common multiple of each pair of numbers.

19 3 and 10

20 7 and 12

21 5 and 8

22 9 and 11

23 10 and 14

24 18 and 24

A red light flashes every 14 minutes. A blue light flashes every 24 minutes. When will the two lights flash together again, if they last flashed together at 8 A.M.?

Inspiring Greatness

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