Greatest Common Factor and Least Common Multiple Worksheets

ANSWER / CASE 1

Find the greatest common factor and least common multiple of 12 and 18.

Number	First four positive multiples
12	12, 24, 36, 48
18	18, 36, 54, 72

ANSWER: GCF = 6; LCM = 36.
1. Compare positive factors to find the greatest shared factor.
2. The least positive shared multiple equals product divided by the GCF.

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ANSWER / CASE 2

Find the greatest common factor and least common multiple of 18 and 24.

Number	First four positive multiples
18	18, 36, 54, 72
24	24, 48, 72, 96

ANSWER: GCF = 6; LCM = 72.
1. Compare positive factors to find the greatest shared factor.
2. The least positive shared multiple equals product divided by the GCF.

Greatest Common Factor and Least Common Multiple Worksheets

ANSWER / CASE 3

Find the greatest common factor and least common multiple of 24 and 30.

Number	First four positive multiples
24	24, 48, 72, 96
30	30, 60, 90, 120

ANSWER: GCF = 6; LCM = 120.
1. Compare positive factors to find the greatest shared factor.
2. The least positive shared multiple equals product divided by the GCF.

Greatest Common Factor and Least Common Multiple Worksheets

ANSWER / CASE 4

Find the greatest common factor and least common multiple of 30 and 36.

Number	First four positive multiples
30	30, 60, 90, 120
36	36, 72, 108, 144

ANSWER: GCF = 6; LCM = 180.
1. Compare positive factors to find the greatest shared factor.
2. The least positive shared multiple equals product divided by the GCF.