

# GCF and LCM

Find the greatest common factor and the least common multiple of each pair.

Name \_\_\_\_\_

Date \_\_\_\_\_

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|--------------|---------------------|---------------|---------------------|
| 1. 10 and 25 | GCF _____ LCM _____ | 11. 9 and 17  | GCF _____ LCM _____ |
| 2. 15 and 30 | GCF _____ LCM _____ | 12. 20 and 12 | GCF _____ LCM _____ |
| 3. 26 and 6  | GCF _____ LCM _____ | 13. 4 and 14  | GCF _____ LCM _____ |
| 4. 21 and 15 | GCF _____ LCM _____ | 14. 18 and 6  | GCF _____ LCM _____ |
| 5. 25 and 5  | GCF _____ LCM _____ | 15. 10 and 12 | GCF _____ LCM _____ |
| 6. 16 and 11 | GCF _____ LCM _____ | 16. 24 and 20 | GCF _____ LCM _____ |
| 7. 12 and 15 | GCF _____ LCM _____ | 17. 16 and 28 | GCF _____ LCM _____ |
| 8. 9 and 15  | GCF _____ LCM _____ | 18. 14 and 18 | GCF _____ LCM _____ |
| 9. 14 and 6  | GCF _____ LCM _____ | 19. 10 and 20 | GCF _____ LCM _____ |
| 10. 6 and 11 | GCF _____ LCM _____ | 20. 17 and 12 | GCF _____ LCM _____ |

# GCF and LCM: answer key

Each answer in colour; the LCM is the two numbers multiplied, divided by the GCF.

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1. **10 and 25: GCF 5, LCM 50**

Factors in both: 1, 5

$$\text{LCM} = 10 \times 25 \div 5 = 250 \div 5 = 50$$

2. **15 and 30: GCF 15, LCM 30**

Factors in both: 1, 3, 5, 15

$$\text{LCM} = 15 \times 30 \div 15 = 450 \div 15 = 30$$

3. **26 and 6: GCF 2, LCM 78**

Factors in both: 1, 2

$$\text{LCM} = 26 \times 6 \div 2 = 156 \div 2 = 78$$

4. **21 and 15: GCF 3, LCM 105**

Factors in both: 1, 3

$$\text{LCM} = 21 \times 15 \div 3 = 315 \div 3 = 105$$

5. **25 and 5: GCF 5, LCM 25**

Factors in both: 1, 5

$$\text{LCM} = 25 \times 5 \div 5 = 125 \div 5 = 25$$

6. **16 and 11: GCF 1, LCM 176**

Factors in both: 1

$$\text{LCM} = 16 \times 11 = 176, \text{ as the GCF is } 1$$

7. **12 and 15: GCF 3, LCM 60**

Factors in both: 1, 3

$$\text{LCM} = 12 \times 15 \div 3 = 180 \div 3 = 60$$

8. **9 and 15: GCF 3, LCM 45**

Factors in both: 1, 3

$$\text{LCM} = 9 \times 15 \div 3 = 135 \div 3 = 45$$

9. **14 and 6: GCF 2, LCM 42**

Factors in both: 1, 2

$$\text{LCM} = 14 \times 6 \div 2 = 84 \div 2 = 42$$

10. **6 and 11: GCF 1, LCM 66**

Factors in both: 1

$$\text{LCM} = 6 \times 11 = 66, \text{ as the GCF is } 1$$

11. **9 and 17: GCF 1, LCM 153**

Factors in both: 1

$$\text{LCM} = 9 \times 17 = 153, \text{ as the GCF is } 1$$

12. **20 and 12: GCF 4, LCM 60**

Factors in both: 1, 2, 4

$$\text{LCM} = 20 \times 12 \div 4 = 240 \div 4 = 60$$

13. **4 and 14: GCF 2, LCM 28**

Factors in both: 1, 2

$$\text{LCM} = 4 \times 14 \div 2 = 56 \div 2 = 28$$

14. **18 and 6: GCF 6, LCM 18**

Factors in both: 1, 2, 3, 6

$$\text{LCM} = 18 \times 6 \div 6 = 108 \div 6 = 18$$

15. **10 and 12: GCF 2, LCM 60**

Factors in both: 1, 2

$$\text{LCM} = 10 \times 12 \div 2 = 120 \div 2 = 60$$

16. **24 and 20: GCF 4, LCM 120**

Factors in both: 1, 2, 4

$$\text{LCM} = 24 \times 20 \div 4 = 480 \div 4 = 120$$

17. **16 and 28: GCF 4, LCM 112**

Factors in both: 1, 2, 4

$$\text{LCM} = 16 \times 28 \div 4 = 448 \div 4 = 112$$

18. **14 and 18: GCF 2, LCM 126**

Factors in both: 1, 2

$$\text{LCM} = 14 \times 18 \div 2 = 252 \div 2 = 126$$

19. **10 and 20: GCF 10, LCM 20**

Factors in both: 1, 2, 5, 10

$$\text{LCM} = 10 \times 20 \div 10 = 200 \div 10 = 20$$

20. **17 and 12: GCF 1, LCM 204**

Factors in both: 1

$$\text{LCM} = 17 \times 12 = 204, \text{ as the GCF is } 1$$