

Multiples, Factors, Prime, and Composite

Grade 4 • MATH • Finding factors and multiples and classifying numbers as prime or composite to 100 •
Standards: 4.OA.B.4

*For each problem, list what is asked for, then decide if the number is prime or composite.
Remember: prime numbers have exactly two factors, while composite numbers have more than two factors!*

- 1.** List the first 5 multiples of 3. Is 3 prime or composite?
- 2.** List all the factors of 8. Is 8 prime or composite?
- 3.** List the first 4 multiples of 7. Is 7 prime or composite?
- 4.** List all the factors of 12. Is 12 prime or composite?
- 5.** List all the factors of 17. Is 17 prime or composite?
- 6.** List the first 6 multiples of 9. Is 9 prime or composite?
- 7.** List all the factors of 23. Is 23 prime or composite?
- 8.** List all the factors of 36. Is 36 prime or composite?
- 9.** List the first 5 multiples of 13. Is 13 prime or composite?
- 10.** List all the factors of 48. Is 48 prime or composite?
- 11.** List all the factors of 61. Is 61 prime or composite?
- 12.** List all the factors of 72. Is 72 prime or composite?

Answer Key — Multiples, Factors, Prime, and Composite

For the teacher / parent. Do not distribute with the worksheet.

1. 3, 6, 9, 12, 15. Prime (*3 has exactly two factors (1 and 3), so it is prime*)
2. 1, 2, 4, 8. Composite (*8 has more than two factors, so it is composite*)
3. 7, 14, 21, 28. Prime (*7 has exactly two factors (1 and 7), so it is prime*)
4. 1, 2, 3, 4, 6, 12. Composite (*12 has more than two factors, so it is composite*)
5. 1, 17. Prime (*17 has exactly two factors, so it is prime*)
6. 9, 18, 27, 36, 45, 54. Composite (*9 has more than two factors (1, 3, 9), so it is composite*)
7. 1, 23. Prime (*23 has exactly two factors, so it is prime*)
8. 1, 2, 3, 4, 6, 9, 12, 18, 36. Composite (*36 has more than two factors, so it is composite*)
9. 13, 26, 39, 52, 65. Prime (*13 has exactly two factors (1 and 13), so it is prime*)
10. 1, 2, 3, 4, 6, 8, 12, 16, 24, 48. Composite (*48 has more than two factors, so it is composite*)
11. 1, 61. Prime (*61 has exactly two factors, so it is prime*)
12. 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72. Composite (*72 has more than two factors, so it is composite*)