

Prime or Composite?

Name: _____

Grade 4 · List the factors, then decide if the number is prime or composite

How it works

List the factors of the number. If there are exactly two, 1 and the number itself, it is **prime**. If there are more than two, it is **composite**.

13 has the factors 1 and 13, so it is prime. **15** has the factors 1, 3, 5 and 15, so it is composite.

A. List all the factors. Circle prime or composite.

1. **17** Factors: _____

2. **21** Factors: _____

3. **29** Factors: _____

4. **39** Factors: _____

5. **43** Factors: _____

6. **51** Factors: _____

7. **57** Factors: _____

8. **61** Factors: _____

9. **77** Factors: _____

10. **83** Factors: _____

11. **91** Factors: _____

12. **97** Factors: _____

B. Circle the prime numbers.

2 9 11 15 23 27 31 33 37 45 47 49

C. Answer each question.

1. Is 1 prime, composite or neither? _____

2. Write an odd composite number between 20 and 30. _____

3. Why is 2 the only even prime number?

Prime or Composite? (Answer Key)

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A. List all the factors. Circle prime or composite.

1. 17 Factors: <u>1, 17</u> ☒ prime ☐ composite	2. 21 Factors: <u>1, 3, 7, 21</u> ☐ prime ☒ composite
3. 29 Factors: <u>1, 29</u> ☒ prime ☐ composite	4. 39 Factors: <u>1, 3, 13, 39</u> ☐ prime ☒ composite
5. 43 Factors: <u>1, 43</u> ☒ prime ☐ composite	6. 51 Factors: <u>1, 3, 17, 51</u> ☐ prime ☒ composite
7. 57 Factors: <u>1, 3, 19, 57</u> ☐ prime ☒ composite	8. 61 Factors: <u>1, 61</u> ☒ prime ☐ composite
9. 77 Factors: <u>1, 7, 11, 77</u> ☐ prime ☒ composite	10. 83 Factors: <u>1, 83</u> ☒ prime ☐ composite
11. 91 Factors: <u>1, 7, 13, 91</u> ☐ prime ☒ composite	12. 97 Factors: <u>1, 97</u> ☒ prime ☐ composite

B. Circle the prime numbers.

2 9 11 15 23 27 31 33 37 45 47 49

C. Answer each question.

1. Is 1 prime, composite or neither? neither

2. Write an odd composite number between 20 and 30. 21, 25 or 27

3. Why is 2 the only even prime number?

All other even numbers have 2 as a factor, so they have more than two factors.