

Name: _____

Prime and Composite Number Questions

1. What are factors?

2. How is a prime number different from a composite number?

3. Are all even numbers composite? Explain.

4. Are there any numbers that are neither prime nor composite? Explain.

5. Find the prime number from the list below. Explain how you can tell which one is prime.

465	822	600	743
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ANSWER KEY

Prime and Composite Number Questions

1. What are factors?

Factors are the numbers that are multiplied together to make a larger number.

2. How is a prime number different from a composite number?

A prime number has exactly two factors. A composite number has more than two factors.

3. Are all even numbers composite? Explain.

2 is the only even number that is not composite. Any other even number has at least 3 factors: 2, 1 and the number itself.

4. Are there any numbers that are neither prime nor composite? Explain.

1 is neither prime nor composite because it has only 1 factor.

0 is neither prime nor composite because it does not have a finite number of factors.

5. Find the prime number from the list below. Explain how you can tell which one is prime.

465	822	600	743
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743 has to be the prime number, by deduction. 465 has 5 as a factor because any number whose final digit is 5 is divisible by 5. 822 has 2 as a factor because all even numbers can be divided by 2. 600 cannot be prime because any number whose final digit is 0 is divisible by 10.