

Prime & Composite Numbers Worksheets

2. Find all factors for the following numbers, and classify each number as prime or composite. Explain your classification of each as prime or composite.

Factor Pairs for 25	Factor Pairs for 28	Factor Pairs for 29

3. Bryan says all prime numbers are odd numbers.
- List all of the prime numbers less than 20 in numerical order.
 - Use your list to show that Bryan's claim is false.
4. Sheila has 28 stickers to divide evenly among 3 friends. She thinks there will be no leftovers. Use what you know about factor pairs to explain if Sheila is correct.

Prime & Composite Numbers Worksheets

2. Find all factors for the following numbers and classify as prime or composite. Explain your classification of each as prime or composite.

Factor Pairs for 25	
1	25
5	5

Composite
more than 2 factors

Factor Pairs for 28	
1	28
2	14
4	7

Composite
more than 2 factors

Factor Pairs for 29	
1	29

Prime
only 2 factors,
just 1 and itself (29)

3. Bryan says all prime numbers are odd numbers.
a. List all of the prime numbers less than 20 in numerical order.

2, 3, 5, 7, 11, 13, 17, 19

- b. Use your list to show that Bryan's claim is false.

Bryan's claim is false because 2 is a prime number but it is an even number.

4. Sheila has 28 stickers to divide evenly among 3 friends. She thinks there will be no leftovers. Use what you know about factor pairs to explain if Sheila is correct.

Sheila is incorrect. 3 is not a factor of 28. 3 is a factor of 27, so each friend could receive 9 stickers each, and there would be one sticker left over.

$$3 \times 9 = 27 \quad 27 + 1 = 28$$