

Prime Time Sort!

Prime vs Composite Practice

Prime & Composite Numbers

CCSS 4.OA.B.4

Name: _____

Date: _____

PRIME

Exactly TWO factors:
1 and itself.
Goes on the LEFT.

NEITHER (keepers!)

0 and 1 are neither
prime nor composite.
They go in the MIDDLE.

COMPOSITE

MORE than two
factors.
Goes on the RIGHT.

Part 1: Sort each player onto the field.

Write each number in the correct column: PRIME, NEITHER (0 or 1), or COMPOSITE.

7 12 1 19 9 2 0 15 23 4 11 21

PRIME

NEITHER (0 & 1)

COMPOSITE

Part 2: Circle every PRIME number.

4 5 6 9 13 14 17 22 25 29
31 33 37 40 41

Part 3: List the factors, then circle prime or composite.

6 Factors: _____ PRIME or COMPOSITE

13 Factors: _____ PRIME or COMPOSITE

16 Factors: _____ PRIME or COMPOSITE

23 Factors: _____ PRIME or COMPOSITE

Goalie Challenge!

Why do the numbers 0 and 1 wear the "NEITHER" goalie shirt? Explain in your own words.

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Answer Key — for teachers

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Part 1: Sort

PRIME: 2, 7, 11, 19, 23

NEITHER: 0, 1 (0 and 1)

COMPOSITE: 4, 9, 12, 15, 21

Part 2: Circle every prime

Primes to circle: 5, 13, 17, 29, 31, 37, 41

Part 3: Factors

6: factors = 1, 2, 3, 6 **COMPOSITE**

13: factors = 1, 13 **PRIME**

16: factors = 1, 2, 4, 8, 16 **COMPOSITE**

23: factors = 1, 23 **PRIME**

Goalie Challenge

0 and 1 are NEITHER prime nor composite. A prime number needs exactly two factors (1 and itself). The number 1 has only ONE factor (just 1), and 0 has infinitely many factors, so neither one fits the rule — that is why they are the special "keeper" numbers.