* GOBBLE UP THE PRIMES! *

Grade 4 - Gobble Up the Primes - Prime & Composite Worksheet

Aligned to CCSS 4.OA.B.4 - DOK 1-3 - Free from MySchoolHero.com

Name: _____ **Date:** _____

1. Prime or Composite?

Circle P or C:

7: P / C · 9: P / C

13: P / C · 15: P / C

DOK 1

2. Factor Pairs

List ALL factor pairs of 24:

_____

_____

DOK 1

3. Prime Pies

Circle the prime pies:

21 · 23 · 25 · 27 · 29 · 31

DOK 1

4. Prove It's Composite

Write a factor pair (not 1):

51 = ____ × ____

57 = ____ × ____

DOK 1

5. Little Pies

List every prime from 1 to 20:

_____

_____

DOK 1

6. Count the Factors

How many factors?

12: ____ · 17: ____

36: ____

DOK 1

7. Check the Basket

The turkey caught 2, 9, 19, 33, 41.

Which pies are NOT prime?

_____

DOK 2

8. Fix the Mistake

Tom says 91 is prime because it is odd. Is he right? Prove it.

_____

DOK 2

9. Multiples

Is 63 a multiple of 7? _____

Is 63 a multiple of 4? _____

DOK 2

10. Mystery Prime

I am a prime between 40 and 50.

My digits add up to 7.

Who am I? _____

DOK 2

11. ALWAYS or NEVER?

"Every prime number except 2 is odd." Always or never true?

Explain:

_____

DOK 3

12. Explain your thinking!

Why is 1 neither prime nor composite?

_____

_____

DOK 3

ANSWER KEY 1. P, C, P, C · 2. 1 × 24, 2 × 12, 3 × 8, 4 × 6 · 3. 23, 29, 31 · 4. 3 × 17, 3 × 19 · 5. 2, 3, 5, 7, 11, 13, 17, 19 · 6. 12 has 6, 17 has 2, 36 has 9 · 7. 9 (3 × 3) and 33 (3 × 11) · 8. No: 91 = 7 × 13, so it is composite · 9. Yes (7 × 9); No · 10. 43 · 11. Always: every even number above 2 has 2 as a factor · 12. 1 has only one factor; a prime needs exactly two



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