HOW THE WORLD WORKS

FACTORS, PRIME AND COMPOSITE NUMBERS

Name: _____

Date: _____

Grade 4 Homework

Key Ideas

Factor

A number that divides another number exactly (with no remainder).

Example: Factors of 12: 1, 2, 3, 4, 6, 12

Prime Number

A number with exactly two factors: 1 and itself.

Examples: 2, 3, 5, 7, 11, 13...

Composite Number

A number with more than two factors.

Examples: 4, 6, 8, 9, 10, 12...

Remember: 1 is neither a prime nor a composite number.

1 Find the Factors

Write all the factors for each number.

a) 8 = _____

b) 12 = _____

c) 15 = _____

d) 18 = _____

e) 20 = _____

f) 24 = _____

2 Prime or Composite?

Decide if each number is prime or composite. Tick (✓) the correct box.

Number	Prime	Composite	Number	Prime	Composite
2	☐	☐	14	☐	☐
4	☐	☐	17	☐	☐
5	☐	☐	18	☐	☐
9	☐	☐	19	☐	☐
11	☐	☐	21	☐	☐

3 Fill in the Missing Factors

Use your knowledge of factors to complete each set.

a) Factors of 16: 1, 2, ____, 4, 8, ____

b) Factors of 18: 1, ____, 3, 6, 9, ____

c) Factors of 21: 1, ____, 7, ____

d) Factors of 30: 1, 2, ____, 5, ____, ____, 15, 30

e) Factors of 28: 1, 2, 4, ____, 14, ____

f) Factors of 36: 1, 2, 3, ____, 6, 9, ____, ____, 36

4 Create Factor Pairs

Write all the factor pairs for each number.

a) **12** (___ × ___), (___ × ___), (___ × ___)

b) **20** (___ × ___), (___ × ___), (___ × ___)

c) **24** (___ × ___), (___ × ___), (___ × ___)

5 Apply What You Know

Solve the problems using factors, prime and composite numbers.

a) Which of these numbers are prime?

13 **15** **19** **21** _____

b) Which of these numbers are composite?

8 **11** **16** **23** _____

c) List all the factors of 28. _____

d) What is the only even prime number? _____

e) Is 27 a prime or composite number? Explain your answer.

_____

_____

LIVEWORKSHEETS