Grade 4 Math Worksheet 2: Factors & Multiples -Types of Numbers (Intermediate Level)

Name: _____

Date: _____

Part 1: Factors

1. What are the factors of 120?
a) 1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20, 24, 30, 40, 60, 120
b) 1, 2, 4, 6, 8, 10, 12, 20, 30, 40, 50, 60, 120
c) 1, 2, 3, 5, 10, 12, 24, 40, 60, 120
d) 1, 2, 5, 10, 12, 20, 25, 30, 50, 120

2. Which of the following is the greatest common factor (GCF) of 36 and 72?
a) 6
b) 12
c) 18
d) 24

3. What is the least common factor (LCF) of any two numbers?
a) 1
b) The smallest prime factor
c) The largest common factor
d) The smallest nonzero number

4. Find the common factors of 48 and 60.
a) 1, 2, 3, 4, 6, 8, 12, 24

b) 1, 2, 3, 6, 12, 24
c) 1, 2, 4, 8, 16, 24
d) 1, 3, 6, 9, 12

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5. Which of the following is a factor of both 20 and 30?

a) 2
b) 4
c) 5
d) 6

Part 2: Multiples

6. What is the least common multiple (LCM) of 10 and 15?

a) 30
b) 60
c) 120
d) 45

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7. What is the least common multiple (LCM) of 7 and 11?

a) 77
b) 22
c) 28
d) 33

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8. What is the first multiple of 12 that is greater than 100?

a) 102
b) 108
c) 120
d) 132

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9. What is the least common multiple (LCM) of 5, 10, and 15?

a) 5
b) 15

c) 30
d) 60

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10. What is the LCM of 9 and 14?
a) 63
b) 72
c) 126
d) 54

Part 3: Prime Factorization

11. What is the prime factorization of 60?
a) 2 × 3 × 5
b) 2 × 2 × 3 × 5
c) 2 × 3 × 3 × 5
d) 2 × 5 × 5 × 3

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12. What is the prime factorization of 48?
a) 2 × 2 × 2 × 2 × 3
b) 2 × 2 × 3 × 4
c) 2 × 2 × 2 × 2 × 2 × 3
d) 2 × 2 × 2 × 3 × 3

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13. What is the prime factorization of 72?
a) 2 × 3 × 3 × 3
b) 2 × 2 × 3 × 3
c) 2 × 3 × 3 × 2
d) 2 × 2 × 2 × 2 × 3

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14. What is the prime factorization of 90?
a) 2 × 3 × 3 × 5
b) 2 × 3 × 5 × 5

c) 3 × 3 × 5
d) 2 × 5 × 5 × 3

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15. What is the prime factorization of 100?
a) 2 × 5 × 5
b) 2 × 2 × 5 × 5
c) 2 × 5 × 10
d) 2 × 2 × 10 × 5

Part 4: Prime and Composite Numbers

16. Which of the following is a composite number?
a) 7
b) 13
c) 19
d) 24

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17. Which of the following is NOT a prime number?
a) 5
b) 7
c) 11
d) 25

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18. Which of the following numbers is a prime number?
a) 51
b) 19
c) 39
d) 33

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19. Which of the following numbers is composite?
a) 2
b) 3

c) 5
d) 12

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20. Which of the following is NOT a composite number?

a) 9

b) 4

c) 15

d) 19

Part 5: True or False

21. 25 is a composite number.

a) True

b) False

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22. 13 is a prime number.

a) True

b) False

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23. 18 is a multiple of 3.

a) True

b) False

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24. 30 is a multiple of 6.

a) True

b) False

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25. 24 is a factor of 96.

a) True

b) False

Bonus Challenge

26. What is the greatest common factor (GCF) of 72 and 120?
a) 6
b) 12
c) 24
d) 36

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27. What is the least common multiple (LCM) of 6 and 8?
a) 24
b) 48
c) 36
d) 72

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28. What is the prime factorization of 144?
a) 2 × 2 × 2 × 2 × 3 × 3
b) 2 × 3 × 3 × 3
c) 2 × 2 × 3 × 3 × 3
d) 2 × 3 × 5 × 6

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29. Find the common factors of 56 and 84.
a) 1, 2, 4, 7, 14, 28
b) 1, 3, 6, 7, 12, 28
c) 1, 2, 4, 7, 12, 28
d) 1, 2, 4, 7, 21, 28

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30. Find the least common multiple (LCM) of 4 and 5.
a) 10
b) 20
c) 30
d) 40

--BE THE CHAMPION!--