

Grade 4 Math Worksheet 3 : Factors & Multiples -Types of Numbers (Intermediate Level)

Name: _____

Date: _____

Part 1: Factors

1. What are the factors of 36?

- a) 1, 2, 3, 4, 6, 9, 12, 18, 36
 - b) 1, 2, 3, 6, 9, 18, 36
 - c) 1, 2, 4, 6, 8, 12, 36
 - d) 1, 3, 6, 12, 18, 36
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2. What is the greatest common factor (GCF) of 24 and 36?

- a) 4
 - b) 6
 - c) 12
 - d) 24
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3. Which of the following is NOT a factor of 45?

- a) 5
 - b) 9
 - c) 12
 - d) 15
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4. Which of the following numbers is a common factor of both 30 and 45?

- a) 1, 3, 5, 15

- b) 1, 2, 4, 8
 - c) 1, 2, 3, 6
 - d) 1, 2, 5, 10
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5. Which number is the greatest common factor (GCF) of 18 and 24?

- a) 2
 - b) 3
 - c) 6
 - d) 12
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Part 2: Multiples

6. What are the first five multiples of 7?

- a) 7, 14, 21, 28, 35
 - b) 7, 14, 21, 27, 35
 - c) 7, 14, 21, 30, 35
 - d) 7, 12, 19, 26, 35
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7. What is the least common multiple (LCM) of 8 and 12?

- a) 24
 - b) 32
 - c) 48
 - d) 72
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8. What is the least common multiple (LCM) of 5 and 12?

- a) 30
 - b) 60
 - c) 120
 - d) 24
-

9. What is the LCM of 9 and 15?

- a) 30
- b) 45

- c) 60
 - d) 135
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10. What is the LCM of 6, 8, and 12?

- a) 24
 - b) 48
 - c) 72
 - d) 96
-

Part 3: Prime Factorization

11. What is the prime factorization of 72?

- a) $2 \times 2 \times 2 \times 3 \times 3$
 - b) $2 \times 2 \times 3 \times 3 \times 3$
 - c) $2 \times 3 \times 3 \times 3$
 - d) $2 \times 2 \times 5 \times 3$
-

12. What is the prime factorization of 90?

- a) $2 \times 3 \times 5 \times 5$
 - b) $3 \times 3 \times 5 \times 5$
 - c) $2 \times 3 \times 3 \times 3$
 - d) $2 \times 3 \times 5$
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13. What is the prime factorization of 60?

- a) $2 \times 2 \times 2 \times 3 \times 5$
 - b) $2 \times 3 \times 3 \times 5$
 - c) $2 \times 3 \times 5 \times 5$
 - d) $2 \times 2 \times 3 \times 5$
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14. What is the prime factorization of 150?

- a) $2 \times 3 \times 5 \times 5$
- b) $2 \times 3 \times 5 \times 7$

- c) $2 \times 3 \times 3 \times 5$
 - d) $3 \times 5 \times 5 \times 2$
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15. What is the prime factorization of 48?

- a) $2 \times 2 \times 2 \times 2 \times 3$
 - b) $2 \times 2 \times 2 \times 3 \times 3$
 - c) $2 \times 3 \times 4 \times 2$
 - d) $2 \times 3 \times 3 \times 4$
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Part 4: Prime and Composite Numbers

16. Which of the following numbers is prime?

- a) 9
 - b) 11
 - c) 15
 - d) 21
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17. Which of the following is NOT a prime number?

- a) 2
 - b) 3
 - c) 7
 - d) 9
-

18. Which of the following is a composite number?

- a) 7
 - b) 19
 - c) 11
 - d) 27
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19. Which of the following is NOT a composite number?

- a) 4
- b) 8

- c) 9
 - d) 13
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20. Which of the following is a prime number?

- a) 16
 - b) 25
 - c) 23
 - d) 35
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Part 5: True or False

21. 15 is a composite number.

- a) True
 - b) False
-

22. 18 is a prime number.

- a) True
 - b) False
-

23. 25 is a multiple of 5.

- a) True
 - b) False
-

24. 30 is a multiple of 6.

- a) True
 - b) False
-

25. 36 is a factor of 72.

- a) True
 - b) False
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Bonus Challenge

26. What is the greatest common factor (GCF) of 56 and 72?

- a) 6
 - b) 12
 - c) 14
 - d) 28
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27. What is the least common multiple (LCM) of 7, 14, and 28?

- a) 28
 - b) 56
 - c) 84
 - d) 140
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28. What is the prime factorization of 180?

- a) $2 \times 2 \times 3 \times 3 \times 5$
 - b) $2 \times 3 \times 3 \times 5$
 - c) $2 \times 3 \times 5 \times 5$
 - d) $2 \times 3 \times 2 \times 5 \times 5$
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29. Find the common factors of 40 and 60.

- a) 1, 2, 4, 5, 10, 20
 - b) 1, 2, 3, 5, 6, 10
 - c) 1, 2, 4, 6, 8, 10
 - d) 1, 2, 3, 6, 9, 18
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30. What is the LCM of 9 and 12?

- a) 24
 - b) 36
 - c) 72
 - d) 18
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--BE THE CHAMPION!--