

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

Name: _____

Date: _____

Part 1: Factors

1. What are the factors of 54?

- a) 1, 2, 3, 6, 9, 18, 27, 54
 - b) 1, 2, 4, 6, 9, 27, 54
 - c) 1, 3, 6, 9, 18, 54
 - d) 1, 2, 6, 9, 15, 54
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2. What is the greatest common factor (GCF) of 45 and 60?

- a) 3
 - b) 5
 - c) 15
 - d) 60
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3. Which of the following is a factor of 36?

- a) 8
 - b) 12
 - c) 18
 - d) 27
-

4. Which of the following numbers is a common factor of 48 and 60?

- a) 1, 2, 3, 4, 6, 12, 24

- b) 1, 2, 4, 5, 10, 15
 - c) 1, 2, 4, 8, 12, 20
 - d) 1, 2, 3, 5, 15
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5. What is the greatest common factor (GCF) of 36 and 72?

- a) 6
 - b) 12
 - c) 18
 - d) 24
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Part 2: Multiples

6. What are the first five multiples of 9?

- a) 9, 18, 27, 36, 45
 - b) 9, 18, 27, 36, 50
 - c) 9, 17, 27, 36, 45
 - d) 9, 16, 24, 32, 40
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7. What is the least common multiple (LCM) of 6 and 10?

- a) 30
 - b) 60
 - c) 12
 - d) 24
-

8. What is the least common multiple (LCM) of 7 and 14?

- a) 14
 - b) 21
 - c) 28
 - d) 56
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9. What is the LCM of 8 and 12?

- a) 24
- b) 48

- c) 60
 - d) 96
-

10. What is the LCM of 4, 5, and 6?

- a) 12
 - b) 20
 - c) 30
 - d) 60
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Part 3: Prime Factorization

11. What is the prime factorization of 36?

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

12. What is the prime factorization of 100?

- a) $2 \times 2 \times 5 \times 5$
 - b) $2 \times 5 \times 5 \times 5$
 - c) $3 \times 5 \times 5$
 - d) $2 \times 2 \times 3 \times 3$
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13. What is the prime factorization of 84?

- a) $2 \times 2 \times 2 \times 3 \times 7$
 - b) $2 \times 2 \times 3 \times 3 \times 7$
 - c) $2 \times 3 \times 5 \times 7$
 - d) $2 \times 2 \times 3 \times 7$
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14. What is the prime factorization of 72?

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

- c) $3 \times 5 \times 2 \times 2$
 - d) $2 \times 2 \times 3 \times 5$
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15. What is the prime factorization of 120?

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

Part 4: Prime and Composite Numbers

16. Which of the following numbers is prime?

- a) 1
 - b) 4
 - c) 13
 - d) 20
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17. Which of the following numbers is composite?

- a) 17
 - b) 19
 - c) 21
 - d) 29
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18. Which of the following is NOT a prime number?

- a) 2
 - b) 3
 - c) 5
 - d) 9
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19. Which of the following numbers is prime?

- a) 25
- b) 31

- c) 35
 - d) 39
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20. Which of the following is a composite number?

- a) 2
 - b) 7
 - c) 9
 - d) 11
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Part 5: True or False

21. 30 is a multiple of 6.

- a) True
 - b) False
-

22. 18 is a prime number.

- a) True
 - b) False
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23. 35 is a composite number.

- a) True
 - b) False
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24. 20 is a multiple of 5.

- a) True
 - b) False
-

25. 72 is a factor of 144.

- a) True
 - b) False
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Bonus Challenge

26. What is the greatest common factor (GCF) of 40 and 50?

- a) 5
 - b) 10
 - c) 20
 - d) 40
-

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

- a) 15
 - b) 30
 - c) 45
 - d) 60
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28. What is the prime factorization of 150?

- a) $2 \times 3 \times 5 \times 5$
 - b) $3 \times 5 \times 5 \times 2$
 - c) $2 \times 2 \times 3 \times 5$
 - d) $2 \times 3 \times 5 \times 5$
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29. Find the common factors of 28 and 35.

- a) 1, 7
 - b) 1, 2, 4
 - c) 1, 5, 7
 - d) 1, 2, 3, 6
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30. What is the LCM of 6 and 8?

- a) 12
 - b) 24
 - c) 48
 - d) 72
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--BE THE CHAMPION!--