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## **GRADE 5, 6 & 7 WORKSHEET**

### **Topic: HIGHEST COMMON FACTOR**

**Name:** \_\_\_\_\_

#### **A. Objective Questions (Choose the correct option)**

1. Find the HCF of 12 and 18.  
A. 6   B. 4   C. 3   D. 2   E. 1
2. What is the HCF of 24 and 32?  
A. 4   B. 6   C. 8   D. 12   E. 2
3. The HCF of 45 and 60 is:  
A. 10   B. 12   C. 15   D. 20   E. 25
4. Find the HCF of 72 and 90.  
A. 8   B. 9   C. 12   D. 18   E. 36
5. The HCF of 16, 24 and 40 is:  
A. 4   B. 8   C. 2   D. 6   E. 10
6. What is the HCF of 54 and 81?  
A. 9   B. 27   C. 18   D. 3   E. 6
7. Find the HCF of 63 and 84.  
A. 7   B. 9   C. 14   D. 21   E. 28
8. The HCF of 100 and 80 is:  
A. 10   B. 20   C. 40   D. 25   E. 50
9. Find the HCF of 35 and 49.  
A. 5   B. 7   C. 10   D. 14   E. 21

10. The HCF of 18, 27, and 45 is:  
A. 3   B. 6   C. 9   D. 12   E. 15
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## B. Short Answer Questions

11. Find the HCF of 28 and 42.  
12. Find the HCF of 96 and 120.  
13. Find the HCF of 64, 96, and 128.  
14. Using prime factorization, find the HCF of 48 and 60.  
15. Find the HCF of 150 and 225.  
16. Find the HCF of 84, 126, and 210.  
17. Using division method, find the HCF of 144 and 180.  
18. Find the HCF of 56 and 98.  
19. Find the HCF of 360 and 540.  
20. Find the HCF of 75, 100, and 125.
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## C. Word Problems

21. A school has two groups of students: **48 boys** and **60 girls**. They are to be arranged in equal rows with no student left out. What is the maximum number of students in each row?
22. A farmer has **84 oranges** and **126 apples**. He wants to pack them into identical baskets so that each basket contains the same number of each fruit. What is the greatest number of baskets he can make?

23. Two lamps flash at intervals of **12 minutes** and **18 minutes**. After how many minutes will they flash together again?

24. A tailor has two rolls of cloth measuring **150 m** and **225 m**.

What is the greatest length he can cut from each roll so that no cloth is wasted?

25. A school has **90 pencils**, **135 erasers**, and **180 rulers**.

They want to pack them into identical sets. What is the maximum number of sets that can be made?

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