

HCF - Highest Common Factor Worksheet Questions for Class 5

Section A: Find the HCF

1. Find the HCF of 12 and 18.
 2. Find the HCF of 24 and 36.
 3. Find the HCF of 20 and 30.
 4. Find the HCF of 15 and 45.
 5. Find the HCF of 28 and 42.
 6. Find the HCF of 16 and 40.
 7. Find the HCF of 32 and 48.
 8. Find the HCF of 25 and 50.
 9. Find the HCF of 14 and 49.
 10. Find the HCF of 27 and 63.
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Section B: Find the HCF of Three Numbers

11. Find the HCF of 12, 18, and 24.
 12. Find the HCF of 16, 24, and 40.
 13. Find the HCF of 20, 30, and 50.
 14. Find the HCF of 15, 30, and 45.
 15. Find the HCF of 18, 27, and 36.
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Section C: Word Problems

16. Rita has 24 red balloons and 36 blue balloons. She wants to make identical groups with no balloons left over. What is the greatest number of groups she can make?

17. A baker has 42 chocolate cupcakes and 56 vanilla cupcakes. He wants to pack them into identical boxes with the same number of each type in every box. What is the maximum number of boxes he can make?
18. A teacher has 18 pencils and 30 erasers. She wants to distribute them equally among students without any items left. How many students can receive them?
19. There are 48 apples and 72 oranges. They are to be packed into identical baskets so that each basket has the same number of apples and oranges. Find the greatest number of baskets.
20. A gardener has 30 rose plants and 45 sunflower plants. He wants to arrange them into equal rows with no plants left over. What is the greatest number of rows?
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Section D: Multiple Choice Questions

21. The HCF of 18 and 24 is:
- A) 3
 - B) 6
 - C) 9
 - D) 12
22. The HCF of 16 and 20 is:
- A) 2
 - B) 4
 - C) 8
 - D) 16
23. Which pair has an HCF of 5?
- A) 10 and 15
 - B) 12 and 18
 - C) 16 and 24
 - D) 14 and 28
24. The HCF of 27 and 36 is:

- A) 3
- B) 6
- C) 9
- D) 12

25. The HCF of 25 and 35 is:

- A) 1
 - B) 5
 - C) 7
 - D) 25
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Section E: Challenge Questions

26. Two numbers have an HCF of 8. One number is 40. Write another possible number.

27. Find the greatest number that divides 54 and 90 exactly.

28. The HCF of two numbers is 9. One number is 45. Write another possible number.

29. Two numbers have an HCF of 12. Give one possible pair of numbers.

30. Write two different pairs of numbers whose HCF is 7.

Answer Key

1. 6
2. 12
3. 10
4. 15
5. 14
6. 8
7. 16
8. 25

9. 7

10.9

11.6

12.8

13.10

14.15

15.9

16.12 groups

17.14 boxes

18.6 students

19.24 baskets

20.15 rows

21.B) 6

22.B) 4

23.A) 10 and 15

24.C) 9

25.B) 5

26. Example Answer: 56 (Any multiple of 8 such as 24, 56, 72, etc., is acceptable if the HCF with 40 is 8.)

27.18

28. Example Answer: 63 (Any multiple of 9 with HCF 9 with 45 is acceptable.)

29. Example Answer: 24 and 36 (Other correct pairs are acceptable.)

30. Example Answers: 14 and 21; 35 and 49 (Other correct pairs with HCF 7 are acceptable.)