

Greatest common factor

Find the greatest common factor (GCF) of each pair: the largest number that divides both.

Name

Date

1. 75 and 36

GCF
11. 10 and 70

GCF
2. 56 and 52

GCF
12. 85 and 68

GCF
3. 65 and 47

GCF
13. 24 and 57

GCF
4. 6 and 84

GCF
14. 12 and 61

GCF
5. 56 and 20

GCF
15. 50 and 43

GCF
6. 95 and 30

GCF
16. 33 and 27

GCF
7. 66 and 84

GCF
17. 76 and 48

GCF
8. 16 and 28

GCF
18. 93 and 66

GCF
9. 100 and 49

GCF
19. 16 and 64

GCF
10. 66 and 33

GCF
20. 51 and 72

GCF

Greatest common factor: answer key

Each answer in colour, and the factors of each number.

1. **75 and 36: GCF 3**

Factors of 75: 1, 3, 5, 15, 25, 75

Factors of 36: 1, 2, 3, 4, 6, 9, 12, 18, 36

In both: 1, 3

2. **56 and 52: GCF 4**

Factors of 56: 1, 2, 4, 7, 8, 14, 28, 56

Factors of 52: 1, 2, 4, 13, 26, 52

In both: 1, 2, 4

3. **65 and 47: GCF 1**

Factors of 65: 1, 5, 13, 65

Factors of 47: 1, 47

In both: 1

4. **6 and 84: GCF 6**

Factors of 6: 1, 2, 3, 6

Factors of 84: 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, 84

In both: 1, 2, 3, 6

5. **56 and 20: GCF 4**

Factors of 56: 1, 2, 4, 7, 8, 14, 28, 56

Factors of 20: 1, 2, 4, 5, 10, 20

In both: 1, 2, 4

6. **95 and 30: GCF 5**

Factors of 95: 1, 5, 19, 95

Factors of 30: 1, 2, 3, 5, 6, 10, 15, 30

In both: 1, 5

7. **66 and 84: GCF 6**

Factors of 66: 1, 2, 3, 6, 11, 22, 33, 66

Factors of 84: 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, 84

In both: 1, 2, 3, 6

8. **16 and 28: GCF 4**

Factors of 16: 1, 2, 4, 8, 16

Factors of 28: 1, 2, 4, 7, 14, 28

In both: 1, 2, 4

9. **100 and 49: GCF 1**

Factors of 100: 1, 2, 4, 5, 10, 20, 25, 50, 100

Factors of 49: 1, 7, 49

In both: 1

10. **66 and 33: GCF 33**

Factors of 66: 1, 2, 3, 6, 11, 22, 33, 66

Factors of 33: 1, 3, 11, 33

In both: 1, 3, 11, 33

11. **10 and 70: GCF 10**

Factors of 10: 1, 2, 5, 10

Factors of 70: 1, 2, 5, 7, 10, 14, 35, 70

In both: 1, 2, 5, 10

12. **85 and 68: GCF 17**

Factors of 85: 1, 5, 17, 85

Factors of 68: 1, 2, 4, 17, 34, 68

In both: 1, 17

13. **24 and 57: GCF 3**

Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24

Factors of 57: 1, 3, 19, 57

In both: 1, 3

14. **12 and 61: GCF 1**

Factors of 12: 1, 2, 3, 4, 6, 12

Factors of 61: 1, 61

In both: 1

15. **50 and 43: GCF 1**

Factors of 50: 1, 2, 5, 10, 25, 50

Factors of 43: 1, 43

In both: 1

16. **33 and 27: GCF 3**

Factors of 33: 1, 3, 11, 33

Factors of 27: 1, 3, 9, 27

In both: 1, 3

17. **76 and 48: GCF 4**

Factors of 76: 1, 2, 4, 19, 38, 76

Factors of 48: 1, 2, 3, 4, 6, 8, 12, 16, 24, 48

In both: 1, 2, 4

18. **93 and 66: GCF 3**

Factors of 93: 1, 3, 31, 93

Factors of 66: 1, 2, 3, 6, 11, 22, 33, 66

In both: 1, 3

19. **16 and 64: GCF 16**

Factors of 16: 1, 2, 4, 8, 16

Factors of 64: 1, 2, 4, 8, 16, 32, 64

In both: 1, 2, 4, 8, 16

20. **51 and 72: GCF 3**

Factors of 51: 1, 3, 17, 51

Factors of 72: 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72

In both: 1, 3