

# Factors

Name \_\_\_\_\_

List ALL the factors of each of these numbers. The number in brackets is the number of factors.

1	(1)	31	(2)
2	(2)	32	(6)
3	(2)	33	(4)
4	(3)	34	(4)
5	(2)	35	(4)
6	(4)	36	(9)
7	(2)	37	(2)
8	(4)	38	(4)
9	(3)	39	(4)
10	(4)	40	(8)
11	(2)	41	(2)
12	(6)	42	(8)
13	(2)	43	(2)
14	(4)	44	(6)
15	(4)	45	(6)
16	(5)	46	(4)
17	(2)	47	(2)
18	(6)	48	(10)
19	(2)	49	(3)
20	(6)	50	(6)
21	(4)	60	(12)
22	(4)	64	(7)
23	(2)	70	(8)
24	(8)	72	(12)
25	(3)	75	(6)
26	(4)	80	(10)
27	(4)	81	(5)
28	(4)	89	(2)
29	(2)	90	(12)
30	(8)	100	(9)

## Challenge Questions

1. Find all factors of 120.
2. Find all factors of 720.
- 3\*. Find the smallest number that has 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10 as factors.

# Highest Common Factor CHALLENGE!

For each pair of numbers, find the Highest Common Factor from the HCF table on the right. Each HCF answer is used **exactly** once.

Hint #1: Use a pencil!

Hint #2: Don't do the questions in order!

1. 18 and 27 \_\_\_\_\_
2. 28 and 42 \_\_\_\_\_
3. 52 and 78 \_\_\_\_\_
4. 8 and 45 \_\_\_\_\_
5. 120 and 205 \_\_\_\_\_
6. 32 and 48 \_\_\_\_\_
7. 54 and 98 \_\_\_\_\_
8. 58 and 87 \_\_\_\_\_
9. 48 and 72 \_\_\_\_\_
10. 16 and 40 \_\_\_\_\_
11. 56 and 84 \_\_\_\_\_
12. 45 and 75 \_\_\_\_\_
13. 18 and 48 \_\_\_\_\_
14. 135 and 180 \_\_\_\_\_
15. 87 and 120 \_\_\_\_\_
16. 36 and 54 \_\_\_\_\_
17. 81 and 108 \_\_\_\_\_
18. 39 and 65 \_\_\_\_\_
19. 52 and 56 \_\_\_\_\_
20. 150 and 375 \_\_\_\_\_
21. 50 and 75 \_\_\_\_\_
22. 36 and 36 \_\_\_\_\_
23. 42 and 77 \_\_\_\_\_
24. 21 and 42 \_\_\_\_\_
25. 44 and 99 \_\_\_\_\_
26. 36 and 60 \_\_\_\_\_

HCF
1
2
3
4
5
6
7
8
9
11
12
13
14
15
16
18
21
24
25
26
27
28
29
36
45
75