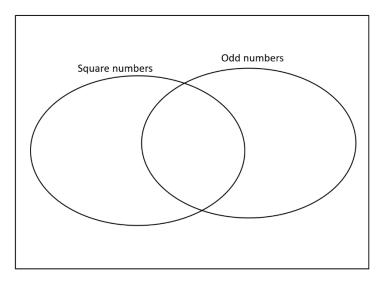


Problem of the Week: Week 6(Sum2): Year 7: Factors, multiples and indices

- Use the concepts and vocabulary of prime numbers, factors (divisors), multiples, common factors, common multiples, highest common factor and lowest common multiple
- Use integer powers and associated real roots (square, cube and higher), recognise powers of 2,3,4,5

Various Venns

Place the numbers from 0 to 51 in this diagram

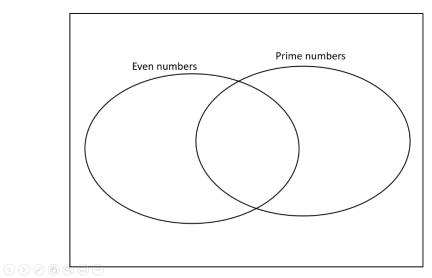


0	1	2	3
4	5	6	7
8	9	10	11
12	13	14	15
16	17	18	19
20	21	22	23
24	25	26	27
28	29	30	31
32	33	34	35
36	37	38	39
40	41	42	43
44	45	46	47
48	49	50	51

https://nrich.maths.org/5721

Various Venns

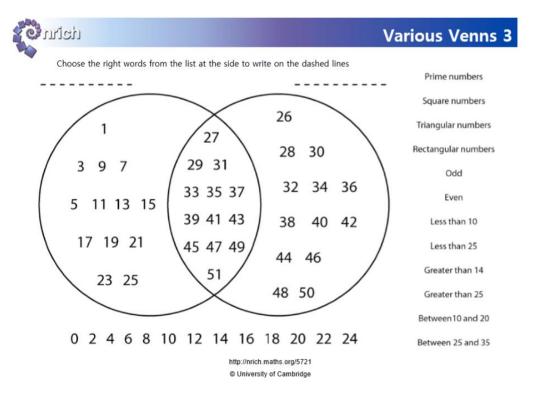
Place the numbers from 0 to 51 in this diagram $\,$



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28	29	30	31
32	33	34	35
36	37	38	39
40	41	42	43
44	45	46	47
48	49	50	51

https://nrich.maths.org/5721





Challenge: Make a Million

Find two numbers, neither of which has a zero digit, whose product is 1,000,000

Try:

Factor	Factor	Product (factor x factor)	1,000,000 ?
7	43	301	No
918	414	380, 052	No
999	999	999, 801	No