Ye Olde Times Table
and prime factorization

Look for patterns.
Circle all of the prime numbers.
Play 'cut out a prime factor and write it down'.
As shown: Cut any of the 12 dots in half to get 2 copies of a 2 by 3 prime grid. And behold: 12 is prime factored as 2x2x3
Also shown: The 16 dot square takes 2 cuts to get 2x2 copies of a 2 by 2 grid. And behold: 16 is prime factored as 2x2x2x2.
Shade in all of the numbers that are the products of 2 primes as shown for 15.
How interesting! The perfect squares seem to be separated by the odd integers!
Write each compound number as the product of primes.

1	2 2	3 3	4 2x2	5 5	6 2x3	7 7	8 2x2x2	9 3x3	10 2x5
2 2	4 2x2	6 2x3	8 2x2x2	10 2x5	12 2x2x3	14 2x7	16 2x2x2x2	18 2x3x3	20 2x2x5
3 3	6 2x3	9 3x3	12 2x2x3	15 3x5	18 2x3x3	21 3x7	24 2x2x2x3	27 3x3x3	30 2x3x5
4 2x2	8 2x2x2	12 2x2x3	16 2x2x2x2	20 2x2x5	24 2x2x2x3	28 2x2x7	32 2x2x2x2x2	36 2x2x3x3	40 2x2x2x5
5 5	10 2x5	15 3x5	20 2x2x5	25 5x5	30 2x3x5	35 5x7	40 2x2x2x5	45 3x3x5	50 2x5x5
6 2x3	12 2x2x3	18 2x3x3	24 2x2x2x3	30 2x3x5	36 2x2x3x3	42 2x3x7	48 2x2x2x2x3	54 2x3x3x3	60 2x2x3x5
7 7	14 2x7	21 3x7	28 2x2x7	35 5x7	42 2x3x7	49 7x7	56 2x2x2x7	63 3x3x7	70 2x5x7
8 2x2x2	16 2x2x2x2	24 2x2x2x3	32 2x2x2x2x2	40 2x2x2x5	48 2x2x2x2x3	56 2x2x2x7	64 2x2x2x2x2x2	72 2x2x2x3x3	80 2x2x2x2x5
9 3x3	18 2x3x3	27 3x3x3	36 2x2x3x3	45 3x3x5	54 2x3x3x3	63 3x3x7	72 2x2x2x3x3	81 3x3x3x3	90 2x3x3x5
10 2x5	20 2x2x5	30 2x3x5	40 2x2x2x5	50 2x5x5	60 2x2x3x5	70 2x5x7	80 2x2x2x2x5	90 2x3x3x5	100 2x2x5x5