Year 10 Work on Factors

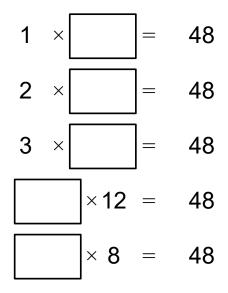
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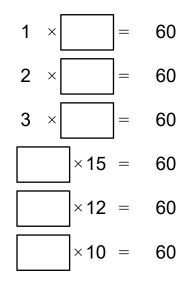
Part A: Complete the times table grid below

×	4	5	6	7	8	9	10	11	12
5									
8									
7									
9									
6									
12									
20									

Part B: Factor Pairs

Work out the missing factors in the following factor pairs





Write the factors of 48 and 60.

Part C: Further Factor Pairs

List the factor pairs of the following numbers:

а	45	с	30	е	64
b	27	d	49	f	36

Part D: Abundant, Deficient and Perfect Numbers

A perfect number is one where the sum of the factors add up to exactly twice the number itself.

An example of a perfect number is 6 because its factors are $\{1, 2, 3, 6\}$ which, when added together sums to 12.

For the numbers, 2 to 40, calculate the sum of their factors list the numbers in perfect, deficient and abundant numbers.

Perfect Numbers Sum of factors =2n	Abundant Numbers Sum of factors > 2n	Deficient Numbers Sum of factors < 2n