

Grade C development work

Prime Factor Decomposition

Write the following numbers as the product of their prime factors

28	100	74	210	85
38	320	2560	540	8600

Draw a VENN diagram and use this to find the HCF and the LCM of the following pairs of numbers

<i>45 and 100</i>	<i>60 and 42</i>	<i>26 and 30</i>
<i>36 and 42</i>	<i>92 and 39</i>	<i>320 and 455</i>

Demonstrate how we can use Prime Factor Decomposition to cancel the following fractions

$\frac{420}{130}$	$\frac{630}{42}$
$\frac{2079}{252}$	$\frac{1430}{21}$

Challenge:

- i) Can you find any prime numbers between 200 and 300
- ii) Investigate whether or not you can write ANY even number as the SUM of TWO prime numbers.