C:\Users\ben\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\3V1EJPZE\MC900446248[1].wmf**HCF and LCM**

Objective: to be able to find the HCF and LCM of a pair of numbers

Starter questions

**Write a definition for the words factor and multiple, include examples**

**The bigger a number is the more factors it has. Is this statement true, sometimes true or false? Explain your answer with examples.**

Which is the odd number out of each list?

1. 16,32,40,52
2. 21,35, 62, 84
3. 24, 46, 84, 132
4. 18, 32, 48, 90
5. 16, 27, 54, 81

B

C

A

**Main questions**

**Find the Highest Common Factor of these numbers:**

1. **18 and 30**
2. **15 and 20**
3. **16 and 24**
4. **12 and 36**
5. **20 and 30**
6. **28 and 70**
7. **39 and 65**
8. **38 and 57**

**Find the Lowest Common Multiple of these numbers**

1. **6 and 7**
2. **4 and 6**
3. **5 and 8**
4. **10 and 4**
5. **16 and 5**
6. **14 and 21**
7. **2.2 and 5**
8. **0.4 and 7**

**Star questions**

If you add up all of the factors of 6 (not including 6 itself) you get the number 6, this makes 6 a perfect number. How many perfect numbers can you find? Challenge the person next to you.