		pel		1	10
5		nr.	SE	C	10
L	XŁ	1.01			-

- 1. The factors of 9 are 3,9 (from 3,4,5,6,7;8,9)
- 2. The comment factors of 36 = 1, 2, 3, 4, 6, 9, 12 The factors of 24 = 1, 2, 3, 4, 6, 8, 12
 - . The common factors of 36 and 24 are 1,2,3,4,6,12
- 3. (a) The smallest multiple of 5 = 5
 - (b) The first three multiples of 6 = 6, 12, 18
 - (c) The multiple of 11 which is greater than 50 but less than 60 is = 55 ($11 \times 5 = 55$)
- 4. (a) The first ten prime numbers are 1,2,3,5,7,11,13, 17,19,23
 - (b) The first ten composite numbers are 4,6,8,9,10, 12,14,15,16,18
 - (c) The first ten odd-composite numbers are 9, 15, 21, 25, 27, 33, 35, 39, 45, 49
- 5% (a) 7 and 14/ Factors of 7 = 1, 7Factors of $14 = 7, 14 = 7 \times 1$ Factors of 14 = 1, 2, 7, 14This This This This Sand 21 = 1XI Stand 21 = 1XI
- 5. (b) 18 and 17 are coprime numbers. (c) 36 and 25 are coprime numbers.
- 6. (a) 27, 138, 3036, 56311 27 is odd number, so anot divisible by 2 138 is even number, so it is divisible by 2 3036 is even number, so it is divisible by 2 3036 is even number, so it is divisible by 2. 56311 is odd number, so it is divisible by 2.

€ 6. (a) 27, 138, 3036, 56,311 2 Here, only 138, and 3036 are even numbers. So, these two numbers are divisible by 2 (B) 40, 712, 5422, 33308 / 4 Here, 40 (4+0=4), 712 (741+2-10), 33308 (3+3+3+0+8)=17 (b) 75, 396, 1112, 30312 3 Here, 75 (7+5=12), 396 (3+9+6=18), 30312 (3+0+3+1+2=9) · are divisible by 3. because their sums are divisible by 3. (c) 40, 712, 5422, 33308 <u>4</u> Here, 40, 712 and 33308 are divisible by 4 because Theiro tast two digits -ane -divisible by 4. (d) 95, 556, 2360, 13134 5 Here, 95 and 2360 are divisible by 5 because they have 5 and 0 in their ones positions respectively. (e) 85, 840, 9005, 18760 10 Here, 840 and 18760 are divisible by 10 because they have 0 in their ones positions. (f) '96, 726, 9824, 76504 `8 Hene, 96, 9824, 19 7654 are a divisible by both 2 and 4. So these are divisible by 8.

(g) 56, 108, 2372, 15,606 9

Here, 108, and 15606 are divisible by 9 because their sums of digits are divisible by 9. [108 (1+0+8=9), 15000 (1+5+0+0=18)]

- (h) 97, 506, 2354, 83908 <u>11</u> $[E^{+6}]^{-0-117}$ Here, 506 $[2354] (2^{+5})^{-(3+4)=0}$ and $83908 [(8^{+5})^{+(3+0)} - (3^{+0})] = 2^{2}$ are divisible by 11. because, the difference between the sum of the digits of odd places and the sum of the digits in even places one of each number are either 0 on a multiple of 11.
 - 7. (a) 36 is divisible by 6 because it is divisible by both 2 and 3.
 - (b) 333 is not divisible by 6 because it is divisible by both 2 and 3. [333 is not divisible by 2]
 - (c) 4326 is divisible by 6 because it is divisible by both 2 and 3.
 - (d) 98762 is not divisible by 6 because it is not divisible by both 2 and 3. [98762 is not divisible by 3]
 - 8. (a) 129 is not divisible by 12 because it is not divisible by both \$3 and 4. [129 is not divisible by 4]
 - (b) 4896 is divisible by 12 because it is divisible by both 3 and 4.

- (c) 79968 is divisible by 12 because it is divisible by both 3 and 4.
- (d) 123 452 is not divisible by 12 because it is not divisible by both 3 and 4. [123 452 is not divisible by 3]
- 9. (a) 390 is divisible by 15 because it is divisible by both 3 and 5.
 - (b) 3000 is not divisible by 15 because it is not divisible by both 3 and 5. [7825 is not divisible by 3]
 - (c) 90875 is not divisible by 15 because it is not divisible by both 3 and 5. [90875 is not divisible by 3]
 - (d) 123450 is divisible by 15 because it is divisible by both 3 and 5.
- 10. (d) 9026 is divisible by 2 but not by 4 [because the last two digits are not divisible by 4.7

The last two digits is divisible by 4, so 1540 is divisible by 4.

The magiven number has 0 in its ones place, so it is divisible by 5.

The difference of the sum of digits in even places and the sum of digits in odd places [(1+4)-(5+0)=0] is 0, so it is divisible by 11.

^{11. 1540}

