

Ch 3 Playing With Numbers

1. Test the divisibility of the following numbers as directed:

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| (a) by 2 | (i) 25460
(ii) 34517
(iii) 34968 |
| (b) by 3 | (i) 4539
(ii) 34531
(iii) 7236 |
| (c) by 4 | (i) 810528
(ii) 12575
(iii) 34524 |
| (d) by 5 | (i) 34565
(ii) 5678
(iii) 275490 |
| (e) by 6 | (i) 34567
(ii) 44568
(iii) 45679 |
| (f) by 8 | (i) 3456128
(ii) 345675
(iii) 345256 |
| (g) by 9 | (i) 723456
(ii) 6045678
(iii) 123456 |
| (h) by 10 | (i) 345620
(ii) 789230
(iii) 345678 |
| (i) by 11 | (i) 90728
(ii) 863423
(iii) 76844 |

2. In each of the following numbers, replace * by a digit so that the number becomes divisible
- (a) by 3
 - (b) by 9
 - (c) by 11

The numbers are:

- (i) 246*781
 - (ii) 1234*56
 - (iii) 34567*120
3. Find the HCF of following numbers:
- (a) 144 and 198
 - (b) 513 and 783
 - (c) 830, 790 and 650
 - (d) 2241, 8217 and 747
4. Find the LCM of following numbers:
- (a) 24, 36 and 40
 - (b) 15, 20, 27 and 81
 - (c) 22, 54, 108, 135 and 198
5. Four bells ring at intervals of 8, 12, 18 and 20 minutes. They ring simultaneously at 12 noon. At what time, will the bells ring again simultaneously?