STD VI

	EXERCISE 2B	
1. Test the divisibility o	f the following numbers by 2	
(i) 2650	(ii) 69435	(iii) 59628
(iv) 789403	(v) 357986	(vi) 367314
2. Test the divisibility o	f the following numbers by 3	li .
(i) 733	(iii) 10038	(iii) 20701
(iv) 524781	(v) 79124	(vt) 872645
3. Test the divisibility o	f the following numbers by 4	a remaining to him mentions. It has be
(1) 618	(ii) 2314	(iii) 63712
(iv) 35056	(v) 946126	(vt) 810524
4. Test the divisibility o	f the following numbers by 5	
(i) 4965	(11) 23590	(iii) 35208
(iv) 723405	(v) 124684	(vi) 438750
5. Test the divisibility of	f the following numbers by	6:
(1) 2070	(ii) 46523	(iii) 71232
(N) 934706	(v) 251780	(vi) 872536
6. Test the divisibility of	the following numbers by	7.
(1) 826	(0) 117	(III) 2345
(IV) 6021	(v) 14126	(nl) 25368
7. Test the divisibility of	the following numbers by 8	(11) 20000
(i) 9364	(II) 2138	(iii) 36792
(Iv) 901674	(v) 136976	tot 1200184
 Test the divisibility of 	the following numbers by f	(41) 1790164
(i) 2358	(ii) 3333	(10) 98712
(IV) 257106	(v) 647514	(iii) 98712 (vi) 326999
. Test the divisibility of	the following numbers by	(VI) 326999
(1) 5790	(ii) 63215	
Test the divisibility of	the following numbers by 1	(III) 55555
(1) 4334	(ii) 83721	
(lv) 137269		(iii) 66311
	(v) 901351	(vi) 8790322
(i) 27+4	numbers, replace * by the	smallest number to make it divisible by :
(iv) 62+35	(ii) 53+46	(iii) 8+711
	(v) 234*17	(vi) 6*1054
 In each of the following (i) 65+5 	numbers, replace • by the s	smallest number to make it divisible by S
(iv) 91+67	(ii) 2*135	(iii) 6702*
(IV) 91*97	(v) 6678+1	(vi) 835+86

13.	In each of the by 11:	following numbers, replace * by the	e smallest number to make it divisible	
	(i) 26+5	(ii) 39+43	(ш) 86*72	

(viii) 397

(iv) 467+91 (v) 1723+4 (vi) 9-8071

14. Test the divisibility of:
(i) 10000001 by 11 (ii) 19083625 by 11 (iii) 2134563 by 9

(i) 103 (ii) 137 (iii) 161 (v) 217 (vi) 277 (vii) 331 16. Give an example of a number

which is divisible by 2 but not by 4.

(ii) which is divisible by 4 but not by 8.(iii) which is divisible by both 2 and 8 but not by 16.

(iv) which is divisible by both 3 and 6 but not by 18.

Write (T) for true and (E) for false against each of the following

Write (T) for true and (F) for false against each of the following statements:
 If a number is divisible by 4, it must be divisible by 8.

(ii) If a number is divisible by 8, it must be divisible by 4.

(iii) If a number divides the sum of two numbers exactly, it must exactly divide the num-

bers separately.

(iv) If a number is divisible by both 9 and 10, it must be divisible by 90.

Hint. 9 and 10 are co-primes.

(v) A number is divisible by 18 if it is divisible by both 3 and 6.

Hint, 3 and 6 are not co-primes. Consider 186.

If a number is divisible by 3 and 7, it must be divisible by 21.
 If number is divisible by 3 and 7, it must be divisible by 4.
 If a number divides two numbers exactly, it must divide their sum exactly.

EXERCISE 2C

Give the prime factorization of each of the following numbers:

1. 12	2. 18	3. 48	4. 56	s. 90
6. 136	7. 252	8, 420	9, 637	10. 945
11. 1224	12. 1323	13.8712	14. 9317	15. 1035
16. 1197	17. 4641	18. 4335	19. 2907	20. 13915

Note:

- 1) Do all work of Ex 2B in copy number 2
- No need to solve Question 17 of Ex 2B.
 Do all work of Ex 2C in copy number 1