Exercise - 8 (A)

1)

Divisible by	Number						
	99	184	7065	12480	27534	23343	12210
3	✓	✗	✓	✓	✓	✓	✓
4	✗	✓	✗	✓	✗	✗	✗
5	✗	✗	✓	✓	✗	✗	✓
6	✗	✗	✗	✓	✓	✗	✓
9	✓	✗	✓	✗	✗	✗	✗
11	✓	✗	✗	✗	✗	✗	✓
12	✗	✗	✗	✓	✗	✗	✗
15	✗	✗	✓	✓	✗	✗	✓

2) a) 3646 to get a number divisible by 3 - (i) 1 (ii) 2

b) 12642 to get a number divisible by 4 - (i) 2 (ii) 2

c) 5213 to get a number divisible by 5 - (i) 3 (ii) 2

d) 7421 to get a number divisible by 6 - (i) 5 (ii) 1

e) 9466 to get a number divisible by 9 - (i) 7 (ii) 2

f) 26,303 to get a number divisible by 11 - (i) 2 (ii) 9

CW1

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3) a) 8 ; 1008 - Yes

b) 7 ; 658 - Yes

c) 9 ; 3145 - No

d) 11 ; 3644 - No

e) 19 ; 626 - No

f) 17 ; 398 - No

g) 13 ; 4164556 - No

h) 12 ; 780 - Yes

i) 14 ; 464 - No

j) 15 ; 1785 - Yes

4) 13 ; 4103 - No

4) 16 ; 1936 - Yes

4) a) 48 - 1, 2, 3, 4, 6, 8, 12, 16, 24, 48

b) 63 - 1, 3, 7, 9, 21, 63

c) 84 - 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, 84

d) 108 - 1, 2, 3, 4, 9, 12, 27, 36, 54, 108

e) 32 - 1, 2, 4, 8, 16, 32

f) 169 - 1, 13, 169

g) 343 - 1, 7, 49, 343

h) 150 - 1, 2, 3, 5, 6, 10, 15, 25, 30, 50, 75, 150

5) a) Find the first six multiples of 9. 9, 18, 27, 36, 45, 54

b) Find the seventh multiples of 16 - 112

c) Find the fifth multiple of 15 - 75

d) Find the ninth multiple of 16 - 144

e) Find the multiples of 11 greatest than 55 but less than 180. - 66, 77, 88, 99, 110, 121, 132, 143, 154, 165, 176.

f) Find the multiples of 15 greater than 120 but less than 225. 135, 150, 165, 180, 195, 210

6) Write down the prime number between.

a) 50 to 65 - 53, 59, 61

b) 80 to 100 - 83, 89, 97

c) 110 to 125 - 113

7) Write the composite numbers between:

a) 70 to 80 - 72, 74, 75, 76, 77, 78.

b) 100 to 110 - 102, 104, 105, 106, 108.

c) 40 to 50 - 42, 44, 45, 46, 48, 49.

8) Is 1 a prime number?

ans) No.

9) What is the smallest composite number?

ans) 4

10) Write the prime number which is even.

ans) 2

11) Find the prime factors of the following numbers:

and a)
$3 \mid 27$
$3 \mid 9$
3

So, Prime factor of 27 is 3.

b)
$5 \mid 35$
7

So, prime factor of 35 is 5 and 7

c)
$3 \mid 63$
$3 \mid 21$
7

So, prime factor of 63 is 3 and 7

d)
$7 \mid 91$
13

So, prime factor of 91 is 7 and 13

e)
$7 \mid 77$
11

So, prime factor of 77 is 7 and 11

f) 2 | 54
3 | 27
3 | 9
3

So, the prime factors of 54 is 2 and 3.

g) 11 | 143
13

So, prime factors of 143 are 11 and 13