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Exercise-8 (A)

1. From the numbers given below mark the number which are divisible and which are not divisible by the numbers given on the left.

Divisible by	99	184	7065	12480	23343	1210
3	✓	✗	✓	✓	✓	✓
4	✗	✓	✗	✓	✗	✗
5	✗	✗	✓	✓	✗	✓
6	✗	✗	✗	✓	✗	✓
9	✓	✗	✓	✗	✗	✗
11	✓	✗	✗	✗	✗	✓
12	✗	✗	✗	✓	✗	✗
15	✗	✗	✓	✓	✗	✓

2. What is the smallest number which should be (i) subtracted from and (ii) added to
- 3646 to get a number divisible by 3
i. 1 ii. 2
 - 12642 to get a number divisible by 4
i. 2 ii. 2
 - 5213 to get a number divisible by 5
i. 3 ii. 2
 - 7427 to get a number divisible by 6
i. 5 ii. 4
 - 9466 to get a number divisible by 9
i. 7 ii. 2

b. 26303 to get a number divisible by 11

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3. Find out if the first number is the factor of the second number.

- a. 8: 1008 Yes
- b. 7: 658 Yes
- c. 9: 3145 NO
- d. 11: 3644 NO
- e. 19: 626 NO
- f. 12: 398 NO
- g. 13: 4164556 NO
- h. 12: 780 Yes
- i. 14: 464 NO
- j. 15: 1785 Yes
- k. 13: 4103 NO
- l. 16: 1936 Yes

Exercise 8 [A]

4. List The Factors of the following

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, 6, 9, 12, 18, 27, 36, 54, 108

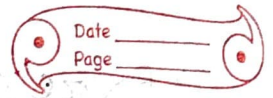
e. 32 - 1, 2, 4, 8, 16, 32

f. 169 - 1, 13, 169

g. 343 - 1, 7, 49, 343

h. 150 - 1, 2, 3, 4, 5, 6, 10, 15, 25, 30, 50, 75, 150

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5. a) find the first six multiple of 9:

9, 18, 27, 36, 45 and 54

b) Find the seventh multiple of 16!

112

c) Find the first fifth multiple of 15

75

d) Find the ninth multiples of 16!

144

e) Find the ~~the~~ multiples of 11 greater than 55 but less than 180!

66, 77, 88, 99, 110, 121, 132, 143, 154, 165

175

f) Find the multiples of 13 greater than 120 but less than 228!

135, 150, 165, 180, 195, 210

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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 - 101, 103, 107, 109, 113,
~~118~~

7. Write down the composite numbers between
- a. 70 to 80: 72, 74, 75, 76, 77, 78
 - b. 100 to 110: 102, 104, 105, 106 and 108
 - c. 40 to 50: 42, 44, 45, 46, 48, 49

8. Is one is a prime number? NO

9. What is the smallest composite number
~~4~~ 4

10. Write the prime number which is even
2

11. Find the prime factors of the following number:

27, 33, 63, 91, 100, 77, 54 and 143.

$$\begin{array}{r} 3 \overline{) 27} \\ \underline{3 \ 9} \\ 3 \end{array}$$

$$\begin{array}{r} 5 \overline{) 35} \\ \underline{5 \ 7} \\ 1 \end{array}$$

$$\begin{array}{r} 3 \overline{) 63} \\ \underline{3 \ 21} \\ 7 \overline{) 7} \\ 1 \end{array}$$

$$\begin{array}{r} 7 \overline{) 91} \\ \underline{7 \ 91} \\ 1 \end{array}$$

$$\begin{array}{r} 2 \overline{) 100} \\ \underline{2 \ 50} \\ 5 \overline{) 25} \\ \underline{5 \ 5} \\ 1 \end{array}$$

$$\begin{array}{r} 7 \overline{) 77} \\ \underline{7 \ 77} \\ 1 \end{array}$$

$$\begin{array}{r} 2 \overline{) 54} \\ \underline{2 \ 27} \\ 3 \overline{) 27} \\ \underline{3 \ 9} \\ 3 \end{array}$$

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191 13
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