

Worksheet

- Write seven consecutive 2-digit composite numbers.
- In order to find prime numbers up to 100, up to what number the divisibility test will be performed?
- Find the number which should replace * in '*245670' to make it divisible by 11.
- Among the following numbers, find the numbers which are divisible by 3, 4, 6, 7, 9 and 11.
 - 1124
 - 692
 - 524
 - 762
 - 1265
 - 2695
 - 752875
 - 435672
 - 3456783
 - 424242423
- Write the prime factors of the following numbers in exponential form.
 - 3240
 - 6048
 - 13860
 - 15120
- Show that 2673 and 1190 are co-prime.
- Write the greatest 5-digit number which is divisible by 8.
- Find the smallest number which should be added to 56432 to make it divisible by 6.
- Write the largest and the smallest 3-digit number which is divisible by 11. Also, find the difference.
- Choose the correct answer.
 - if $x < y$, xy and yx are two-digit numbers, then $xy - yx$ is always divisible by
 - 2
 - 4
 - 5
 - 9
 - The largest number which can be written using three 3s is given by
 - $\frac{33}{3}$
 - 333
 - 33^3
 - 3^{33}
 - The sum of the digits of a number is subtracted from the number. The resulting number is always divisible by
 - 2
 - 4
 - 8
 - 9
 - Every integer is a
 - natural number
 - whole number
 - fraction
 - rational number
 - When first ten prime numbers are multiplied, the numeral at unit's place is
 - 5
 - 3
 - 1
 - 0
 - When first ten odd prime numbers are multiplied, the numeral at unit's place is
 - 0
 - 3
 - 5
 - 7
 - The greatest value of * for which a 6-digit number $63 * 5 * 5$ is divisible by 9 is
 - 9
 - 6
 - 5
 - 4
 - The number $abc + bca + cab$ is always divisible by
 - 3 and 4
 - 3 and 5
 - 3 and 31
 - 3 and 37

Answers to Worksheet

1. 90, 91, 92, 93, 94, 95, 96
2. 7
3. 4
4. Divisible by 3: d, h, i, j
Divisible by 6: d, h
Divisible by 9: h, i, j
- Divisible by 4: a, b, c, h
Divisible by 7: f
Divisible by 11: e, f, i, j
5. a. $2^3 \times 3^4 \times 5$
b. $2^5 \times 3^3 \times 7$
c. $2^2 \times 3^2 \times 5 \times 7 \times 11$
d. $2^4 \times 3^3 \times 5 \times 7$
7. 99992
8. 4
9. 990,110,880
10. a. iv
b. iv
c. iv
d. iv
e. iv
f. iii
g. iv
h. iv