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## NCERT Solutions for 6th Class Maths: Chapter 3-Playing with

 NumbersClass 6: Maths Chapter 3 solutions. Complete Class 6 Maths Chapter 3 Notes.
NCERT Solutions for 6th Class Maths: Chapter 3-Playing with Numbers

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## Exercise 3.1

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1. Write all the factors of the following numbers:
(a) 24
(b) 15
(c) 21
(d) 27
(e) 12
(f) 20
(g) 18
(h) 23
(i) 36

Answer
(a) $1 \times 24=24$
$2 \times 12=24$
$3 \times 8=24$
$4 \times 6=24$
$6 \times 4=24$
$8 \times 3=24$
$12 \times 2=24$
$24=24 \times 1$
$1,2,3,4,6,8,12$ and 24 are the factors of 24 .
(b) $1 \times 15=15$
$3 \times 5=15$
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$5 \times 3=15$
$15 \times 1=15$
$1,3,5$ and 15 are the factors of 15 .
(c) $1 \times 21=21$
$3 \times 7=21$
$7 \times 3=21$
1,3 and 7 are the factors of 21
(d) $1 \times 27=27$
$3 \times 9=27$
$9 \times 3=27$
$1,27,3$ and 9 are the factors of 27
(e) $1 \times 12=12$
$2 \times 6=12$
$3 \times 4=12$
$4 \times 3=12$
$6 \times 2=12$
$12 \times 1=12$
$1,2,3,4,6$ and 12 are the factors of 12 .
(f) $1 \times 20=20$
$2 \times 10=20$
$4 \times 5=20$
$5 \times 4=20$
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$10 \times 2=20$
$20 \times 1=20$
$1,2,4,5,10$ and 20 are the factors of 20 .
(g) $1 \times 18=18$
$2 \times 9=18$
$3 \times 6=18$
$6 \times 3=18$
$9 \times 2=18$
$1,2,3,6$ and 9 are the factors of 18 .
(h) $1 \times 23=23$
$23 \times 1=23$
1 and 23 are the factors of 23 .
(i) $1 \times 36=36$
$2 \times 18=36$
$3 \times 12=36$
$4 \times 9=36$
$6 \times 6=36$
$9 \times 4=36$
$12 \times 3=36$
$18 \times 2=36$
$36 \times 1=36$
$1,2,3,4,6,9,12,18$ and 36 are the factors of 36 .
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## 2. Write first five multiples of :

(a) 5
(b) 8
(c) 9

Answer
(a) Five multiples of 5 are
$5 \times 1=5$
$5 \times 2=10$
$5 \times 3=15$
$5 \times 4=20$
$5 \times 5=25$
(b) Five multiples of 8 are
$8 \times 1=8$
$8 \times 2=16$
$8 \times 3=24$
$8 \times 4=32$
$8 \times 5=40$
(c) Five multiples of 9
$9 \times 1=9$
$9 \times 2=18$
$9 \times 3=27$
$9 \times 4=36$
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$9 \times 5=45$
3. Match the items in column 1 with the items in column 2.

## Column 1 Column 2

(i) 35
(a) Multiple of 8
(ii) 15
(b) Multiple of 7
(iii) 16
(c) Multiple of 70
(iv) 20
(d) Factor of 30

Answer
(i) $\rightarrow$ (b) Multiple of 7
(ii) $\rightarrow$ (d) Factor of 30
(iii) $\rightarrow$ (a) Multiple of 8
(iv) $\rightarrow$ (f) Factor of 20
$(v) \rightarrow(e)$ Factor of 50
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4. Find all the multiples of 9 up to 100.

## Answer

$9 \times 1=9,9 \times 2=18,9 \times 3=27,9 \times 4=36,9 \times 5=45,9 \times 6=54,9 \times 7=63,9 \times 8$ $=72,9 \times 9=81,9 \times 10=90,9 \times 11=99$

Multiples of 9 up to 100 are: $9,18,27,36,45,54,63,72,81,90$, and 99
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## Exercise 3.2

1. What is the sum of any two
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(a) Odd numbers
(b) Even numbers

Answer
(a) $11+13=24$

Sum of two odd number is always even.
(b) $12+14=26$

Sum of two even number is always even.
2. State whether the following statements are True or False:
(a) The sum of three odd numbers is even.
(b) The sum of two odd numbers and one even number is even.
(c) The product of three odd numbers is odd.
(d) If an even number is divided by 2 , the quotient is always odd.
(e) All prime numbers are odd.
(f) Prime numbers do not have any factors.
(g) Sum of two prime numbers is always even.
(h) $\mathbf{2}$ is the only even prime number.
(i) All even numbers are composite numbers.
(j) The product of two even numbers is always even.

Answer
(a) $5+7+9=21$ (false)
(b) $5+7+8=20$ (true)
(c) $3 \times 5 \times 7=105$ (true)
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(d) $4 \div 2=2$ (false)
(e) 2 is a prime number and it is also even
(f) false
(g) false
(h) true
(i) false
(j) true
3. The numbers 13 and 31 are prime numbers. Both these numbers have same digits 1 and 3 . Find such pairs of prime numbers up to 100 .

## Answer

17, 71
37, 23
79, 97
4. Write down separately the prime and composite numbers less than 20.

Answer
Prime numbers which are less than 20:
2, 3, 5, 7, 11, 13, 17, 19
Composite numbers which are less than 20 :
$4,6,8,9,10,12,14,15,16,18$
5. What is the greatest prime number between 1 and 10?

## Answer

1 and 10 prime number are $2,3,5$, and 7 .
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7 is the greatest.
6. Express the following as the sum of two odd primes.
(a) 44
(b) 36
(c) 24
(d) 18

Answer
(a) $37+7=44$
(b) $31+5=36$
(c) $19+5=24$
(d) $11+7=18$
7. Give three pairs of prime numbers whose difference is 2.
[Remark : Two prime numbers whose difference is 2 are called twin primes].

## Answer

3, 5
41, 43
71, 73
8. Which of the following numbers are prime?
(a) 23
(b) 51
(c) 37
(d) 26
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## Answer

(a) $23=1 \times 23=23,23 \times 1=23$
(b) $51=1 \times 51=51,3 \times 17=51,17 \times 3=51,51 \times 1=51$
$1,3,17,51$ they are not prime number.
(c) $37=1 \times 37=37,37 \times 1=37$. They are prime number.
(d) $26=1 \times 26=26,2 \times 13=26,13 \times 2=26,26 \times 1=26$. They are not prime number.
9. Write seven consecutive composite numbers less than 100 so that there is no prime number between them.

## Answer

$90,91,92,93,94,95$ and 96 are seven consecutive composite number less than 100 and there is no prime number between them.

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10. Express each of the following numbers as the sum of three odd primes:
(a) 21
(b) 31
(c) 53
(d) 61

Answer
(a) $3+7+11=21$
(b) $5+7+19=31$
(c) $3+19+31=53$
(d) $11+19+31=61$
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11. Write five pairs of prime numbers less than 20 whose sum is divisible by 5 . (Hint : 3+7 = 10)

## Answer

(i) $2+3=5$
(ii) $2+13=15$
(iii) $3+17=20$
(iv) $7+13=20$
(v) $19+11=30$
12.Fill in the blanks :
(a) A number which has only two factors is called a $\qquad$ .
(b) A number which has more than two factors is called a $\qquad$ .
(c) 1 is neither $\qquad$ nor $\qquad$ -.
(d) The smallest prime number is $\qquad$ .
(e) The smallest composite number is $\qquad$ .
(f) The smallest even number is $\qquad$ .

Answer
(a) Prime number
(b) Composite number
(c) Prime number
(d) 2
(e) 4
(f) 2
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## Exercise 3.3

1. Using divisibility tests, determine which of the following numbers are divisible by 2; by 3 ; by 4 ; by 5 ; by 6 ; by 8 ; by 9 ; by 10 ; by 11 (say, yes or no):

| Number | Divisible by |  |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ | $\mathbf{1 1}$ |  |
| $\mathbf{1 2 8}$ | Yes | No | Yes | No | No | Yes | No | No | No |  |
| $\mathbf{9 9 0}$ | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. |  |
| 1586 | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. |  |
| 275 | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. |  |
| 6686 | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. |  |
| 639210 | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. |  |
| 429714 | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. |  |
| 2856 | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. |  |
| 3060 | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. |  |
| 406839 | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. | $\ldots .$. |  |

## Answer

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| Number | Divisible by |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 10 | 11 |
| 128 | Yes | No | Yes | No | No | Yes | No | No | No |
| 990 | Yes | Yes | No. | Yes | Yes | No | Yes | Yes | Yes |
| 1586 | Yes | No | No | No | No | No | No | No | No |
|  | No | No | No | Yes | No | No | No | No | yes |
| 275 | ..... | … | ..... | ..... | .... | ..... | ... | ..... | - |
| 6686 | Yes | No | No | No | No | No | No | No | No |
|  | Yes | Yes | No | Yes | Yes | No | No | Yes | Yes |
| 639210 |  | Yes | No. | … | Yes | No. | Yes |  |  |
| 429714 | Yes | Yes | No | No | Yes | No | Yes | No | No. |
| 2856 | Yes | Yes | Yes | No | Yes | Yes | No | No | No |
|  |  | \% |  |  | .... |  | Yes | …" |  |
| 3060 | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | No. |
| 406839 | No. | Yes | No. | No. | No. | No | No. | $\stackrel{\text { No }}{\text {-.. }}$ | No. |

2. Using divisibility tests, determine which of the following numbers are divisible by 4; by 8:
(a) 572
(b) 726352
(c) 5500
(d) 6000
(e) 12159
(f) $\mathbf{1 4 5 6 0}$
(g) 21084
(h) 31795072
(i) $\mathbf{1 7 0 0}$
(j) $\mathbf{2 1 5 0}$

## Answer

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(a) $572 \rightarrow$ Last two digit is divisible by 4 , so the given three digit is divisible by 4 but not divisible by 8 .
(b) $726352 \rightarrow$ Last two digit is divisible by 4 , so the given number is divisible by 4 and last three digit is also divisible by 8 so the given number is divisible by 8 .
(c) $5500 \rightarrow$ Last two digit is divisible by 4 , but last three digit number is not divisible by 8.
(d) $6000 \rightarrow$ Last two digit is divisible by 4 , but last three digit number is not divisible by 8.
(e) $12159 \rightarrow$ Last two digit is not divisible by 4 , or last three digit number is also not divisible by 8 .
(f) $14560 \rightarrow$ Last two digit is divisible by 4 and last three digit is also divisible by 8 .
(g) $21084 \rightarrow$ Last two digit is divisible by 4 and last three digit is not divisible by 8 .
(h) $31795072 \rightarrow$ Last two digit is divisible by 4 and last three digit is divisible by 8 .
(i) $1700 \rightarrow$ Last two digit is divisible by 4 , and last three digit is not divisible by 8 .
(j) $2150 \rightarrow$ Last two digit is not divisible by 4, or last three digit number is also not divisible by 8 .
3. Using divisibility tests, determine which of following numbers are divisible by 6:
(a) 297144
(b) 1258
(c) 4335
(d) 61233
(e) 901352
(f) $\mathbf{4 3 8 7 5 0}$
(g) 1790184
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(h) 12583
(i) 639210
(j) 17852

## Answer

(i) $297144 \rightarrow$ last digit of the number is 4 which is divisible by 2 .

Sum of all digits $=27$.
27 is divisible by 3 , so the given number is also divisible by 3 .
Both the number is divisible by 2 and 3 .
So, the given number is divisible by 6 .
(ii) $1258 \rightarrow$ last digit of the number is 8 which is divisible by 2 .

Sum of all digits $=16$.
16 is not divisible by 3 , so the given number is also not divisible by 3 .
So the number is not divisible by both 2 and 3 , or it is not divisible by 6 .
(iii) $4335 \rightarrow$ last digit of the number is 5 , which is not divisible by 2 .

So, the given number is also not divisible by 2 .
Sum of all digits $=15$
Since 15 is divisible by 3 , so the given number is also divisible by 3 .
So, the number is not divisible by both 2 and 3 , or it is not divisible by 6 .
(iv) $61233 \rightarrow$ last digit of the number is 3 , which is not divisible by 2 .

Sum of all digits $=15$.
15 is divisible by 3 , so the given number is also divisible by 3 .
So, the number is not divisible by both 2 and 3 , it is not divisible by 6 . https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-3-playing-with-n umbers/

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(v) $901352=$ last digit of the number is 2 which is divisible by 2 .

Sum of all digits $=20$.
20 is not divisible by 3 , so the given number is also not divisible by 3 .
So, the number is not divisible by both 2 and 3 , it is not divisible by 6 .
(vi) $438750=$ last digit of the number is 0 which is divisible by 2 .

Sum of all digits $=27$.
27 is divisible by 3 , so the given number is also divisible by 3 .
So, the number is divisible by both 2 and 3 , it is divisible by 6 .
(vii) $1790184=$ last digit of the number is 4 which is divisible by 2 .

Sum of all digits $=30$
Since 30 is divisible by 3 , the given number is also divisible by 3 .
So, the number is divisible by both 2 and 3 , it is divisible by 6 .
(viii) $12583=$ last digit of the number is 3 which is not divisible by 2 .

Sum of all digits $=19$.
19 is not divisible by 3 , the given number is also not divisible by 3 .
So, the number is not divisible by both 2 and 3 , it is not divisible by 6 .
(ix) $639210=$ last digit of the number is 0 which is divisible by 2 .

Sum of all digits $=21$.
21 is divisible by 3 , the given number is also divisible by 3 .
Sp , the number is divisible by both 2 and 3 , it is divisible by 6 .
(x) $17852=$ last digit of the number is 2 which is divisible by 2 .

Sum of all digits $=23$.
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Since 23 is not divisible by 3 , the given number is also not divisible by 3 .
So, the number is not divisible by both 2 and 3 , it is not divisible by 6 .
4. Using divisibility tests, determine which of the following numbers are divisible by 11 :
(a) 5445
(b) 10824
(c) 7138965
(d) 70169308
(e) 10000001
(f) 901153

## Answer

(a) $5445=$ Sum of the digits at odd places $=5+4=9$

Sum of the digits at even places $=4+5=9$
Difference $=9-9=0$
Difference between the sum of the digits at odd places and the sum of the digits at even places is 0 , So, 5445 is divisible by 11 .
(b) $10824=$ Sum of the digits at odd places $=4+8+1=13$

Sum of the digits at even places $=2+0=2$
Difference $=13-2=11$
The difference between the sum of the digits at odd places and the sum of the digits at even places is 11 .

So, 10824 is divisible by 11.
(c) $7138965=$ Sum of the digits at odd places $=5+9+3+7=24$
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Sum of the digits at even places $=6+8+1=15$
Difference $=24-15=9$

Difference between the sum of the digits at odd places and the sum of digits at even places is 9 , which is not divisible by 11 .

So, 7138965 is not divisible by 11 .
(d) $70169308=$ Sum of the digits at odd places $=8+3+6+0=17$

Sum of the digits at even places $=0+9+1+7=17$
Difference = 17-17=0
Difference between the sum of the digits at odd places and the sum of the digits at even places is 0 .

So, 70169308 is divisible by 11 .
(e) $10000001=$ Sum of the digits at odd places $=1$

Sum of the digits at even places $=1$
Difference $=1-1=0$
Difference between the sum of the digits at odd places and the sum of the digits at even places is 0 .

So, 10000001 is divisible by 11 .
(f) $901153=$ Sum of the digits at odd places $=3+1+0=4$

Sum of the digits at even places $=5+1+9=15$
Difference $=15-4=11$
Difference between the sum of the digits at odd places and the sum of the digits at even places is 11 , which is divisible by 11 .

So, 901153 is divisible by 11 .
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5. Write the smallest digit and the greatest digit in the blank space of each of the following numbers so that the number formed is divisible by 3 :
(a) $\qquad$ 6724
(b) 4765 $\qquad$ 2

Answer
(a) $\qquad$ 6724

Sum of the remaining digits $=19$
To make the number divisible by 3 , the sum of its digits should be divisible by 3 .
The smallest multiple of 3 which comes after 19 is 21 .
Therefore, smallest number $=21-19=2$
Now, $2+3+3=8$
However, $2+3+3+3=11$
If we put 8 , then the sum of the digits will be 27 and as 27 is divisible by 3 , the number will also be divisible by 3 .

Therefore, the largest number is 8 .
(b) 4765 $\qquad$
Sum of the remaining digits $=24$
To make the number divisible by 3 , the sum of its digits should be divisible by 3 . As 24 is already divisible by 3 , the smallest number that can be placed here is 0 .

Now, $0+3=3$
$3+3=6$
$3+3+3=9$
However, $3+3+3+3=12$
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If we put 9 , then the sum of the digits will be 33 and as 33 is divisible by 3 , the number will also be divisible by 3 .

Therefore, the largest number is 9 .
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6. Write a digit in the blank space of each of the following numbers so that the number formed is divisible by 11 :
(a) 92 $\qquad$ 389
(b) 8 $\qquad$ 9484

Answer
(a) 92 $\qquad$ 389

Sum of the digits at odd places $=9+3+2=14$
Sum of the digits at even places $=8+a+9=17+a$
Difference $=17+a-14=3+a$
For a number to be divisible by 11 , this difference should be zero or a multiple of 11 .
If $3+a=0$, then $a=-3$
However, it cannot be negative.
A closest multiple of 11 which is near to 3 has to be taken. It is 11 itself.
$3+a=11$
$\mathrm{a}=8$
Therefore, the required digit is 8 .
(b) 8 $\qquad$ 9484

Sum of the digits at odd places $=4+4+a=8+a$
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Sum of the digits at even places $=8+9+8=25$
Difference $=25-(8+a)=17-a$
For a number to be divisible by 11 , this difference should be zero or a multiple of 11 .
If $17-a=0$, then, $a=17$
This is not possible.
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## Exercise 3.4

1. Find the common factors of :
(a) 20 and 28
(b) 15 and 25
(c) 35 and 50
(d) 56 and 120

## Answer

(a) Factors of $20=1,2,4,5,10,20$

Factors of $28=1,2,4,7,14,28$
Common factors $=1,2,4$
(b) Factor of $15=1,3,5,15$

Factor of $25=1,5,25$
Common factors $=1,5$
(c) Factor of $35=1,5,7,35$

Factor of $50=1,2,5,10,25,50$
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Common factors $=1,5$
(d) Factors of $56=1,2,4,7,8,14,28,56$

Factors of $120=1,2,3,4,5,6,8,10,12,15,20,24,30,40,60,120$
Common factors $=1,2,4,8$
2. Find the common factors of :
(a) 4, 8 and 12
(b) 5, 15 and 25

## Answer

(a) Factors of $4=1,2,4$

Factors of $8=1,2,4,8$
Factors of $12=1,2,3,4,6,12$
Common factors $=1,2,4$
(b) 5, 15, and 25

Factors of $5=1,5$
Factors of $15=1,3,5,15$
Factors of $25=1,5,25$
Common factors $=1,5$
3. Find first three common multiples of :
(a) 6 and 8
(b) 12 and 18

## Answer

(a) $6=6,12,18,24,30$ and $8=8,16,24,32,40$
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(b) $12=12,24,36,48,60$ and $18=18,36,54,72,90$
4. Write all the numbers less than 100 which are common multiples of $\mathbf{3}$ and 4.

## Answer

Multiple of $3=3,6,9,12,15$
Multiple of $4=4,8,12,16,20$
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5. Which of the following numbers are co-prime?
(a) 18 and 35
(b) 15 and 37
(c) 30 and 415
(d) 17 and 68
(e) 216 and 215
(f) 81 and 16

## Answer

(a) Factors of $18=1,2,3,6,9,18$

Factors of $35=1,5,7,35$
Common factor $=1$
Its common factor is 1 so it is co-prime.
(b) Factor of $15=1,3,5,15$

Factor of $37=1$ and 37
Common factor $=1$
Its common factor is 1 so it is co-prime.
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(c) Factor of $30=1,2,3,5,6,10,15,30$

Factor of $415=1,5,83,415$
Common factor $=1$ and 5
Its common factor are more than 1 . So it is not co-prime.
(d) Factor of $17=1,17$

Factor of $68=1,2,4,17,34,68$
Common factor $=1$ and 17
Its common factor are more than 1 . So it is not co-prime.
(e) Factor of $216=1,2,3,4,6,8,9,12,18,24,27,36,54,72,108,216$

Factor $215=1,5,43,215$
Common factor $=1$
Its common factor is 1 so it is co-prime.
(f) Factor of $81=1,3,9,27,81$

Factor of $16=1,2,4,8,16$
Common factor $=1$
Its common factor is 1 so it is co-prime.
NCERT 6th Maths Chapter 3, class 6 Maths Chapter 3 solutions
6. A number is divisible by both 5 and 12. By which other number will that number be always divisible?

Answer
Factor of $5=1,5$
Factor of $12=1,2,3,4,6,12$
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Common factor $=1$
And the product of these two number is 60 .
Factor of $60=1,2,3,4,5,6,10,12,15,20,30,60$.
7. A number is divisible by 12. By what other numbers will that number be divisible?

Factor of $12=1,2,3,4,6,12$.
Clearly, 1, 2, 3, 4, and 6 are numbers other than 12 by which this number is also divisible.

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## Exercise 3.5

1. Which of the following statements are true?
(a) If a number is divisible by 3 , it must be divisible by 9 .
(b) If a number is divisible by 9, it must be divisible by 3 .
(c) A number is divisible by 18 , if it is divisible by both 3 and 6 .
(d) If a number is divisible by 9 and 10 both, then it must be divisible by 90 .
(e) If two numbers are co-primes, at least one of them must be prime.
(f) All numbers which are divisible by 4 must also be divisible by 8 .
(g) All numbers which are divisible by 8 must also be divisible by 4 .
(h) If a number exactly divides two numbers separately, it must exactly divide their sum.
(i) If a number exactly divides the sum of two numbers, it must exactly divide the two numbers separately.

Answer
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(a) False 12 is divisible by 3 but not divisible by 9 .
(b) True 18 is divisible by 9 it also divisible by 3 .
(c) False 30 is divisible by both 3 and 6 but not divisible by 18 .
(d) True
(e) False
(f) False
(g) True
(h) True

NCERT 6th Maths Chapter 3, class 6 Maths Chapter 3 solutions

## 2.Here are two different factor trees for $\mathbf{6 0}$. Write the missing numbers.

(a)

(b)


Answer
(a) $6=2 \times 3$
$10=5 \times 2$
(b) $60=30 \times 2$
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$30=10 \times 3$
$10=5 \times 2$
3. Which factors are not included in the prime factorisation of a composite number?

## Answer

1 is not included in the prime factorisation of a composite number because it is the factor for all numbers.
4. Write the greatest 4-digit number and express it in terms of its prime factors.

## Answer

Greatest 4-digit number $=9999$
Prime factors of $9999=3 \times 3 \times 11 \times 101=9999$
5. Write the smallest 5-digit number and express it in the form of its prime factors.

## Answer

Smallest 5-digit number $=10,000$
Prime factors of $10,000=2 \times 2 \times 2 \times 2 \times 5 \times 5 \times 5 \times 5=10,000$
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6. Find all the prime factors of 1729 and arrange them in ascending order. Now state the relation, if any; between two consecutive prime factors.

Answer
$1729=7 \times 13 \times 19$
$13-7=6$
$19-3=6$
Difference between of two consecutive prime factor is 6 .
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7. The product of three consecutive numbers is always divisible by 6 . Verify this statement with the help of some examples.

## Answer

$24=2 \times 3 \times 4$ is divisible by 6
$990=9 \times 10 \times 11=$ is divisible by 6
$9240=20 \times 21 \times 22$ is divisible by 6
8. The sum of two consecutive odd numbers is divisible by 4. Verify this statement with the help of some examples.

## Answer

$3+5=8$ is divisible by 4
$15+17=32$ is divisible by 4
$19+21=40$ is divisible by 4
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9. In which of the following expressions, prime factorisation has been done?
(a) $24=2 \times 3 \times 4$
(b) $56=7 \times 2 \times 2 \times 2$
(c) $70=2 \times 5 \times 7$
(d) $54=2 \times 3 \times 9$

Answer
(a) $24=2 \times 3 \times 4$

In this prime factorization, 4 is composite number, because it is divisible by $1,2,4$.
(b) $56=7 \times 2 \times 2 \times 2$
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In this prime factorization, all are prime number because they are divided by 1 and itself.
(c) $70=2 \times 5 \times 7$

In this factors, all are prime number because they are divided by 1 and itself.
(d) $54=2 \times 3 \times 9$

In this prime factorization, 9 is composite number, because it is divisible by $1,3,9$.
10. Determine if $\mathbf{2 5 1 1 0}$ is divisible by $\mathbf{4 5}$.
[Hint : 5 and 9 are co-prime numbers. Test the divisibility of the number by 5 and 9].

## Answer

Factors of $5=1,5$
Factors of $9=1,3,9$
$45=5 \times 9$
25110 last digit is 0 , it is divisible by 5 .
Sum of the digits $25110=2+5+1+1+0=9$
25110 is divisible by 9
So , the number is divisible by both 5 and 9 , it is divisible by 45 .
11. 18 is divisible by both 2 and 3 . It is also divisible by $2 \times 3=6$. Similarly, a number is divisible by both 4 and 6 . Can we say that the number must also be divisible by $\mathbf{4 \times 6 = 2 4}$ ? If not, give an example to justify your answer.

## Answer

12 and 36 both are divisible by 4 and 6 both, but not divisible by 24 .
12. I am the smallest number, having four different prime factors. Can you find me?
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## Answer

Product of 4 smallest prime numbers are .
$2 \times 3 \times 5 \times 7=210$
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## Exercise 3.6

1. Find the HCF of the following numbers:
(a) 18, 48
(b) 30, 42
(c) 18, 60
(d) 27, 63
(e) 36, 84
(f) 34, 102
(g) 70, 105, 175
(h) 91, 112, 49
(i) 18, 54, 81
(j) 12, 45, 75

Answer
(a)

$$
\left.\begin{array}{l|ll|l}
2 & 18 \\
\hline 3 & 9 \\
\hline 3 & 3 \\
\hline & 1 & \begin{array}{l}
2 \\
\hline
\end{array} & \begin{array}{l}
24 \\
\hline 2
\end{array} \\
\hline & & 12 \\
\hline 3 & 6 \\
\hline & 3 \\
\hline & 1
\end{array}\right] \begin{aligned}
& 18=2 \times 3 \times 3 \\
& 48=2 \times 2 \times 2 \times 2 \times 3 \\
& H C F=2 \times 3=6
\end{aligned}
$$

(b)

| 2 | 30 |
| :--- | :--- |
| 3 | 15 |$\quad$| 2 | 42 |
| :--- | ---: |
| 3 | 5 |
| 3 | 21 |
|  | 1 |$\quad$| 7 |
| :--- |

$30=2 \times 3 \times 5$
$42=2 \times 3 \times 7$
HCF $=2 \times 3=6$
HCF of $30,42=6$
(c)
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| 3 | 27 |  |  |
| :--- | ---: | :--- | ---: |
| 3 | 9 |  |  |
| 3 | 3 | 3 | 63 |
|  | 3 | 21 |  |
|  | 1 |  | 7 |

$27=3 \times 3 \times 3$
$63=3 \times 3 \times 7$

HCF $=3 \times 3=9$
HCF of 27,63 is 99
(d)

| 2 | 18 | 2 | 60 |
| :---: | :---: | :---: | :---: |
| 3 | 9 | 2 | 30 |
| 3 | 3 | 3 | 15 |
|  | 1 | 5 | 5 |
|  |  |  | 1 |

$18=2 \times 3 \times 3$
$60=2 \times 2 \times 3 \times 5$
$\mathrm{HCF}=2 \times 3=6$
HCF of 18,60 is 6
(e)
https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-3-playing-with-n umbers/

| 2 | 36 | 2 | 48 |
| :---: | :---: | :---: | :---: |
| 2 | 18 | 2 | 24 |
| 3 | 9 | 2 | 12 |
| 3 | 3 | 2 | 6 |
|  | 1 | 3 | 3 |
|  |  |  | 1 |

$36=2 \times 2 \times 3 \times 3$
$84=2 \times 2 \times 3 \times 7$
$\mathrm{HCF}=2 \times 2 \times 3=12$

HCF of 36,84 is 1212
(f)

| 2 | 34 |
| ---: | ---: |
| 17 | 17 |
|  | 1 |$\quad$| 2 | 102 |
| ---: | ---: |
| 3 | 51 |
|  |  |

$34=2 \times 17$
$102=2 \times 3 \times 17$
$\mathrm{HCF}=2 \times 17=34$
HCF of 34,102 is 34
(g)
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| 2 | 70 |
| :--- | ---: | :--- |
| 5 | 35 |
| 7 | 7 |
|  | 1 |$\quad$| 3 | 105 |
| :--- | :--- |
|  |  |
|  | 3 |$\quad$| 5 |
| :--- |$\quad$| 5 |
| :--- |

$70=2 \times 5 \times 7$
$105=3 \times 5 \times 7$
$175=5 \times 5 \times 7$
HCF $=5 \times 7=35$
HCF of $70,105,17570$, is 35
(h)

| 7 | 91 |
| ---: | ---: | :--- | ---: | :--- | ---: |
| 13 | 13 | | 2 | 112 |
| :--- | :--- | :--- |
| 2 | 56 |
|  | 1 | | 7 | 49 |
| :--- | :--- |
| 2 | 28 |
| 2 |  |

$91=7 \times 13$
$112=2 \times 2 \times 2 \times 2 \times 7$
$49=7 \times 7$

HCF = 7
HCF of $91,112,49$ is 7
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(i)

| 2 | 18 | 2 | 54 | 3 | 81 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 9 | 3 | 27 | 3 | 27 |
| 3 | 3 | 3 | 9 | 3 | 9 |
|  | 1 | 3 | 3 | 3 | 3 |
|  |  |  | 1 |  | 1 |

$18=2 \times 3 \times 3$
$54=2 \times 3 \times 3 \times 3$
$81=3 \times 3 \times 3 \times 3$
HCF $=3 \times 3=9$
HCF of $18,54,81$ is 99
j)

| 2 | 18 | 2 | 54 | 3 | 81 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 9 | 3 | 27 | 3 | 27 |
| 3 | 3 | 3 | 9 | 3 | 9 |
|  | 1 | 3 | 3 | 3 | 3 |
|  |  |  | 1 |  | 1 |

$12=2 \times 2 \times 3$
$45=3 \times 3 \times 5$
$75=3 \times 5 \times 5$
HCF $=3$
HCF of $12,45,75$ is 33 .
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2. What is the HCF of two consecutive
(a) numbers?
(b) even numbers?
(c) odd numbers?

Answer
(a) 1 e.g., HCF of 2 and 3 is 1 .
(b) 2 e.g., HCF of 2 and 4 is 2 .
(c) 1 e.g., HCF of 3 and 5 is 1 .

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3. HCF of co-prime numbers 4 and 15 was found as follows by factorisation: $4=2$ $\times 2$ and $15=3 \times 5$ since there is no common prime factor, so HCF of 4 and 15 is 0 . Is the answer correct? If not, what is the correct HCF?

## Answer

No, 1 is the correct answer.
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## Exercise 3.7

1. Renu purchases two bags of fertiliser of weights 75 kg and 69 kg . Find the maximum value of weight which can measure the weight of the fertiliser exact number of times.

Answer
Weight of bags are 75 kg and 69 kg

| 3 | 75 |
| ---: | ---: |
| 5 | 25 |
| 5 | 5 |
|  | 1 |$\quad$| 3 | 69 |
| :--- | ---: |
| 23 | 23 |
|  | 1 |

$75=3 \times 5 \times 5$
$69=3 \times 23$
HCF $=3$
Hence, the maximum value of weight, which can measure the weight of the fertilizer exact number of times, $=3 \mathrm{~kg}$.
2. Three boys step off together from the same spot. Their steps measure 63 cm , 70 cm and 77 cm respectively. What is the minimum distance each should cover so that all can cover the distance in complete steps?

## Answer

Step measure by first boy $=63 \mathrm{~cm}$
Step measure by second boy $=70 \mathrm{~cm}$
Step measure by third boy $=77 \mathrm{~cm}$

| 2 | 63 | 70 | 77 |
| ---: | ---: | ---: | ---: |
| 3 | 63 | 35 | 77 |
| 3 | 21 | 35 | 77 |
| 5 | 7 | 35 | 77 |
| 7 | 7 | 7 | 77 |
| 11 | 1 | 1 | 11 |
|  | 1 | 1 | 1 |

LCM $=2 \times 3 \times 3 \times 5 \times 7 \times 11=6930$
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The minimum distance each should cover so that all can cover the distance in complete steps is 6930 cm .
3. The length, breadth and height of a room are $825 \mathrm{~cm}, 675 \mathrm{~cm}$ and 450 cm respectively. Find the longest tape which can measure the three dimensions of the room exactly.

## Answer

Length $825 \mathrm{~cm}=3 \times 5 \times 5 \times 11$
Breadth $675 \mathrm{~cm}=3 \times 3 \times 3 \times 5 \times 5$
Height $450 \mathrm{~cm}=2 \times 3 \times 3 \times 5 \times 5$
HCF of 825,675 , and $450=3 \times 5 \times 5=75 \mathrm{~cm}$
Therefore, the longest tape is 75 cm .
4.Determine the smallest 3-digit number which is exactly divisible by 6, 8 and 12.

Answer

| 2 | 6 | 8 | 12 |
| ---: | ---: | ---: | ---: |
| 2 | 3 | 4 | 6 |
| 2 | 3 | 2 | 3 |
| 3 | 3 | 1 | 3 |
|  | 1 | 1 | 1 |

LCM of $6,8,12=2 \times 2 \times 2 \times 3 \times=24$
Hence, the smallest 3-digit number which meets the requirements must be a multiple of 24.

The smallest 3 - digit multiple of 24 is $24 \times 5=120$.
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5. Determine the greatest 3-digit number exactly divisible by 8, 10 and 12.
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Answer

| 2 | 8 | 10 | 12 |
| ---: | ---: | ---: | ---: |
| 2 | 4 | 5 | 6 |
| 2 | 2 | 5 | 3 |
| 3 | 1 | 5 | 3 |
| 5 | 1 | 5 | 1 |
|  | 1 | 1 | 1 |

LCM of $8,10,12=2 \times 2 \times 2 \times 3 \times 5=120$
6.The traffic lights at three different road crossings change after every 48 seconds, 72 seconds and 108 seconds respectively. If they change simultaneously at 7 a.m., at what time will they change simultaneously again?

Answer

| 2 | 48 | 72 | 108 |
| ---: | ---: | ---: | ---: |
| 2 | 24 | 36 | 54 |
| 2 | 12 | 18 | 27 |
| 2 | 6 | 9 | 27 |
| 3 | 3 | 9 | 27 |
| 3 | 1 | 3 | 9 |
| 3 | 1 | 1 | 3 |
|  | 1 | 1 | 1 |

LCM of $48,72,108=2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 3=432$
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7. Three tankers contain 403 litres, 434 litres and 465 litres of diesel respectively. Find the maximum capacity of a container that can measure the diesel of the three containers exact number of times.

## Answer

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| 13 | 403 |
| ---: | ---: | ---: | ---: | :--- | ---: |
| 31 | 31 |
|  | 1 | | 2 | 434 |
| ---: | :--- | ---: |
| 7 | 217 |
| 31 | 31 |$\quad$| 3 |
| ---: |$\quad$| 465 |
| ---: |

$403=13 \times 31$
$434=2 \times 7 \times 31$
$465=3 \times 5 \times 31$
HCF = 31
NCERT 6th Maths Chapter 3, class 6 Maths Chapter 3 solutions
8. Find the least number which when divided by 6,15 and 18 leave remainder 5 in each case.

Answer

| 2 | 6 | 15 | 18 |
| ---: | ---: | ---: | ---: |
| 3 | 3 | 15 | 9 |
| 3 | 1 | 5 | 3 |
| 5 | 1 | 5 | 1 |
|  | 1 | 1 | 1 |

LCM of $6,15,18=2 \times 3 \times 3 \times 5=90$
9.Find the smallest 4-digit number which is divisible by 18, 24 and 32.

## Answer

| 2 | 18 | 24 | 32 |
| ---: | ---: | ---: | ---: |
| 2 | 9 | 12 | 16 |
| 2 | 9 | 6 | 8 |
| 2 | 9 | 3 | 4 |
| 2 | 9 | 3 | 2 |
| 3 | 9 | 3 | 1 |
| 3 | 3 | 1 | 1 |
|  | 1 | 1 | 1 |

LCM of $18,24,32=2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3=288$
NCERT 6th Maths Chapter 3, class 6 Maths Chapter 3 solutions
10.Find the LCM of the following numbers:
(a) 9 and 4
(b) 12 and 5
(c) 6 and 5
(d) 15 and 4

Observe a common property in the obtained LCMs. Is LCM the product of two numbers in each case?

## Answer

(a) 9 and 4

| 2 | 9 | 4 |
| :--- | :--- | :--- |
| 2 | 9 | 2 |
| 3 | 9 | 1 |
| 3 | 3 | 1 |
|  | 1 | 1 |

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LCM $=2 \times 2 \times 3 \times 3=36$
(b) 12 and 5

| 2 | 12 | 5 |
| ---: | ---: | ---: |
| 2 | 6 | 5 |
| 3 | 3 | 5 |
| 5 | 1 | 5 |
|  | 1 | 1 |

LCM $=2 \times 2 \times 3 \times 5=60$
(c) 6 and 5

| 2 | 6 | 5 |
| :--- | :--- | :--- |
| 3 | 3 | 5 |
| 5 | 1 | 5 |
|  | 1 | 1 |

LCM $=2 \times 3 \times 5=30$
(d) 15 and 4

| 2 | 6 | 5 |
| :--- | :--- | :--- |
| 3 | 3 | 5 |
| 5 | 1 | 5 |
|  | 1 | 1 |

LCM $=2 \times 2 \times 3 \times 5=60$
In each LCM multiple is 3.
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11. Find the LCM of the following numbers in which one number is the factor of the other.
(a) 5, 20
(b) 6, 18
(c) 12, 48
(d) 9,45

What do you observe in the results obtained?
Solution :
(a) 5, 20

| 2 | 5 | 20 |
| :--- | ---: | ---: |
| 2 | 5 | 10 |
| 5 | 5 | 5 |
|  | 1 | 1 |

LCM $=2 \times 2 \times 5=20$
(b) 6,18

| 2 | 6 | 18 |
| ---: | ---: | ---: |
| 3 | 3 | 9 |
| 3 | 1 | 3 |
|  | 1 | 1 |

LCM $=2 \times 3 \times 3=18$
(c) 12,48

| 2 | 12 | 48 |
| ---: | ---: | ---: |
| 2 | 6 | 24 |
| 2 | 3 | 12 |
| 2 | 3 | 6 |
| 3 | 3 | 3 |
|  | 1 | 1 |

LCM of $12,48=2 \times 2 \times 2 \times 2 \times 3=48$
d) 9,45

| 3 | 9 | 45 |
| :--- | ---: | ---: |
| 3 | 3 | 15 |
| 5 | 1 | 5 |
|  | 1 | 1 |

LCM $=3 \times 3 \times 5=45$
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