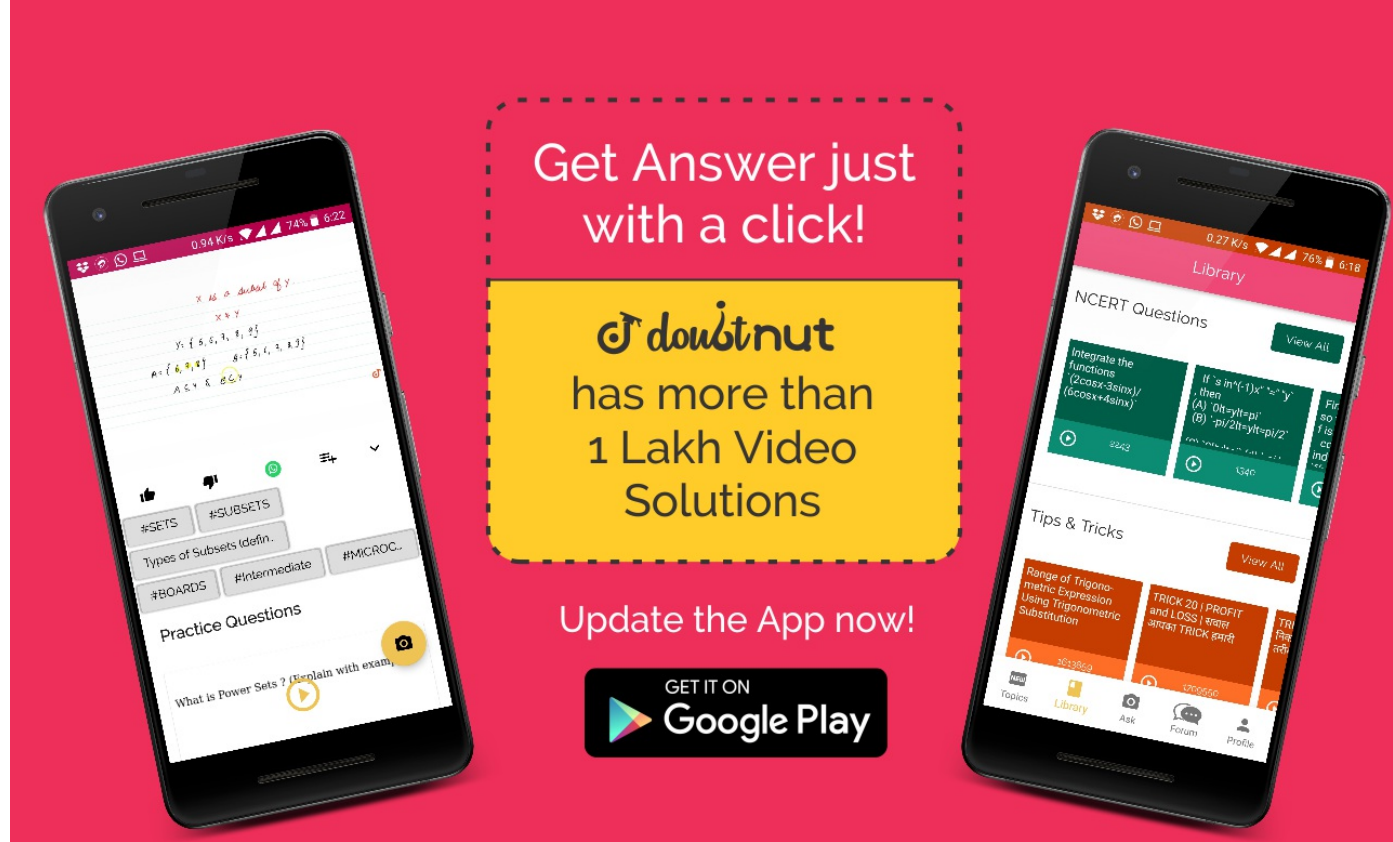


Ques No.	Question						
1	<p>NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.1 - Q 1</p> <p>Write all the factors of the following numbers : (a) 24 (b) 15 (c) 21 (d) 27 (e) 12 (f) 20 (g) 18 (h) 23 (i) 36</p> <p>▶ Watch Free Video Solution on Doubtnut</p>						
2	<p>NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.1 - Q 2</p> <p>Write First Five Multiples of: (a) 5 (b) 8 (c) 9</p> <p>▶ Watch Free Video Solution on Doubtnut</p>						
3	<p>NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.1 - Q 3</p> <p>Match the items in column 1 with the items in column 2. Column 1</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">Column 2 (i) 35</td> <td style="width: 50%;">(a) Multiple of 8 (ii) 15 (b)</td> </tr> <tr> <td>Multiple of 7 (iii) 16</td> <td>(c) Multiple of 70 (iv) 20 (d)</td> </tr> <tr> <td>Factor of 30 (v) 25</td> <td>(e) Factor of 50 (f) Factor of 20</td> </tr> </table> <p>▶ Watch Free Video Solution on Doubtnut</p>	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 (v) 25	(e) Factor of 50 (f) Factor of 20
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 (v) 25	(e) Factor of 50 (f) Factor of 20						
4	<p>NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.1 - Q 4</p> <p>Find all the multiples of 9 upto 100.</p> <p>▶ Watch Free Video Solution on Doubtnut</p>						
5	<p>NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.2 - Q 1</p> <p>What is the sum of any two (a) Odd numbers (b) Even Numbers ?</p> <p>▶ Watch Free Video Solution on Doubtnut</p>						

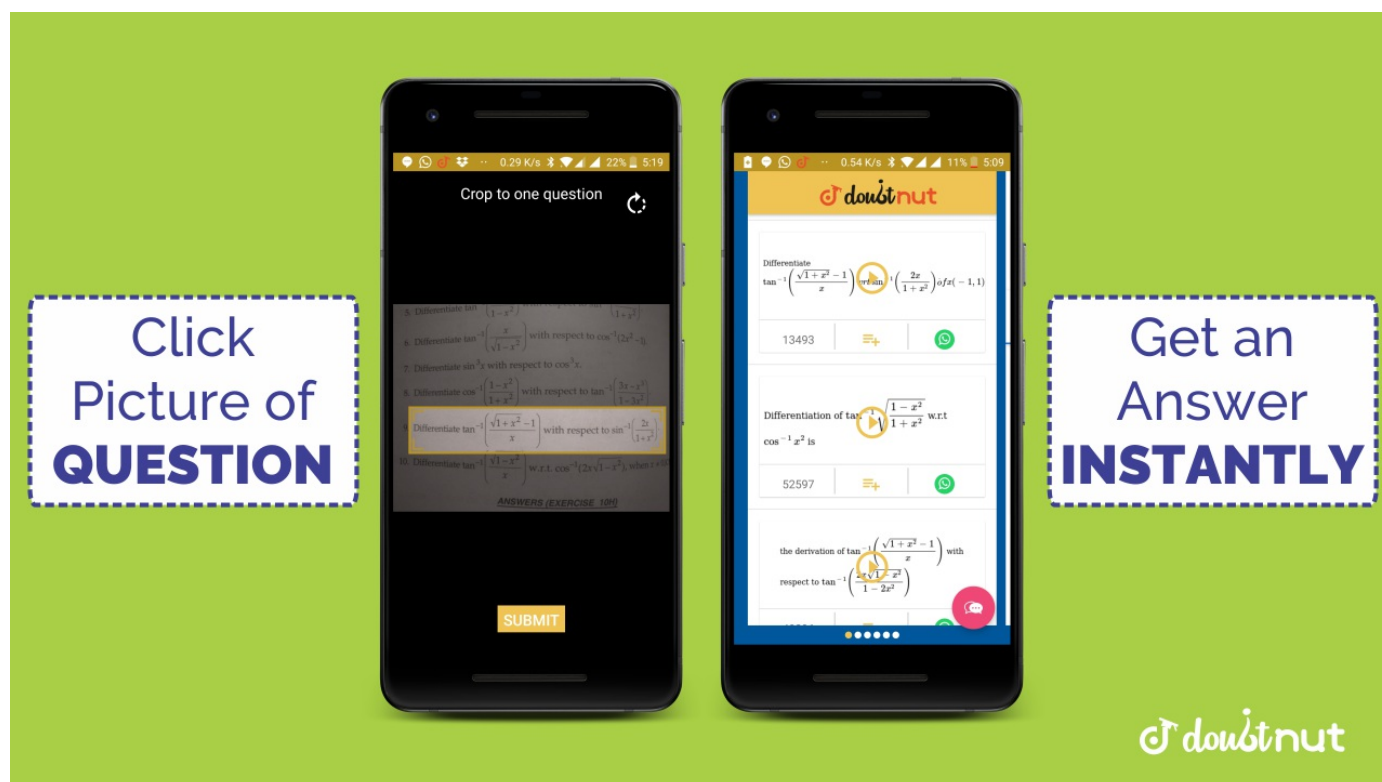


6	<p>NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.2 - Q 2</p> <p>State whether the following statements are True or False: (a) The sum of three odd numbers is even. (b) The sum of two odd numbers and one even number is even. (c) The product of three odd numbers is odd. (d) If an even 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) 2 is the only even prime number. (i) All even numbers are composite numbers. (j) The product of two even numbers is always even</p> <p>▶ Watch Free Video Solution on Doubt nut</p>
7	<p>NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.2 - Q 4</p> <p>Write down separately the prime and composite numbers less than 20.</p> <p>▶ Watch Free Video Solution on Doubt nut</p>
8	<p>NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.2 - Q 5</p> <p>What is the greatest prime number between 1 and 10?</p> <p>▶ Watch Free Video Solution on Doubt nut</p>
9	<p>NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.2 - Q 6</p> <p>Express the following as the sum of two odd primes. (a) 44 (b) 36 (c) 24 (d) 18</p> <p>▶ Watch Free Video Solution on Doubt nut</p>
10	<p>NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.2 - Q 7</p> <p>Give three pairs of prime numbers whose difference is 2. [Remark : Two prime numbers whose difference is 2 are called twin primes]</p> <p>▶ Watch Free Video Solution on Doubt nut</p>

NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.2 - Q 8

11

Which of the following numbers are prime? (a) 23 (b) 51 (c) 37 (d) 26

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12

Write seven consecutive composite numbers less than 100 so that there is no prime number between them.

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13

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

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14

Write five pairs of prime numbers less than 20 whose sum is divisible by 5. Hint : 3+7 = 10)

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15

Fill in the blanks : (a) A number which has only two factors is called a _____. (b) A number which has more than two factors is called a _____. (c) 1 is neither _____ nor _____. (d) The smallest prime number is _____. (e) The smallest composite number is _____. (f) The smallest even number is _____.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.3 - Q 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):

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.3 - Q 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) 14560 (g) 21084 (h) 31795072 (i) 1700 (j) 2150

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.3 - Q 3

Using divisibility tests, determine which of following numbers are divisible by 6: (a) 297144 (b) 1258 (c) 4335 (d) 61233 (e) 901352 (f) 438750 (g) 1790184 (h) 12583 (i) 639210 (j) 17852

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.3 - Q 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

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.3 - Q 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) (b)

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.3 - Q 6

Write a digit in the blank space of each of the following numbers so that the number formed is divisible by 11 : (a) (b)

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.4 - Q 1

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

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.4 - Q 2

Find the common factors of : (a) 4, 8 and 12 (b) 5, 15 and 25

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.4 - Q 3

3. Find first three common multiples of : (a) 6 and 8 (b) 12 and 18

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.4 - Q 4

Write all the numbers less than 100 which are common multiples of 3 and 4.

26

NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.4 - Q 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

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.4 - Q 6

A number is divisible by both 5 and 12. By which other number will that number be always divisible?

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.4 - Q 7

A number is divisible by 12. By what other numbers will that number be divisible ?

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.5 - Q 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.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.5 - Q 2

Here are two different factor trees for 60. Write the missing numbers.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.5 - Q 3

Which factors are not included in the prime factorisation of a composite number?

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.5 - Q 4

Write the greatest 4-digit number and express it in terms of its prime factors.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.5 - Q 5

Write the smallest 5-digit number and express it in the form of its prime factors.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.5 - Q 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.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.5 - Q 7

The product of three consecutive numbers is always divisible by 6. Verify this statement with the help of some examples.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.5 - Q 8

The sum of two consecutive odd numbers is divisible by 4. Verify this statement with the help of some examples.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.5 - Q 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) $54 = 2 \times 3 \times 9$

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.5 - Q 10

Determine if 25110 is divisible by 45.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.5 - Q 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 ? If not, give an example to justify your answer.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.5 - Q 12

I am the smallest number, having four different prime factors. Can you find me?

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.6 - Q 1

41

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

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.6 - Q 2

What is the HCF of two consecutive (a) numbers? (b) even numbers? (c) odd numbers?

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.6 - Q 3

1) what is the HCF of 2 consecutive numbers (i) numbers (ii) even nos (iii) odd nos
2) HCF of co-prime numbers 4 and 15 was found as follows by factorisation : and 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?

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.7 - Q 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.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.7 - Q 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?

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.7 - Q 3

46

The length, breadth and height of a room are 825 cm, 675 cm and 450 cm respectively. Find the longest tape which can measure the three dimensions of the room exactly.

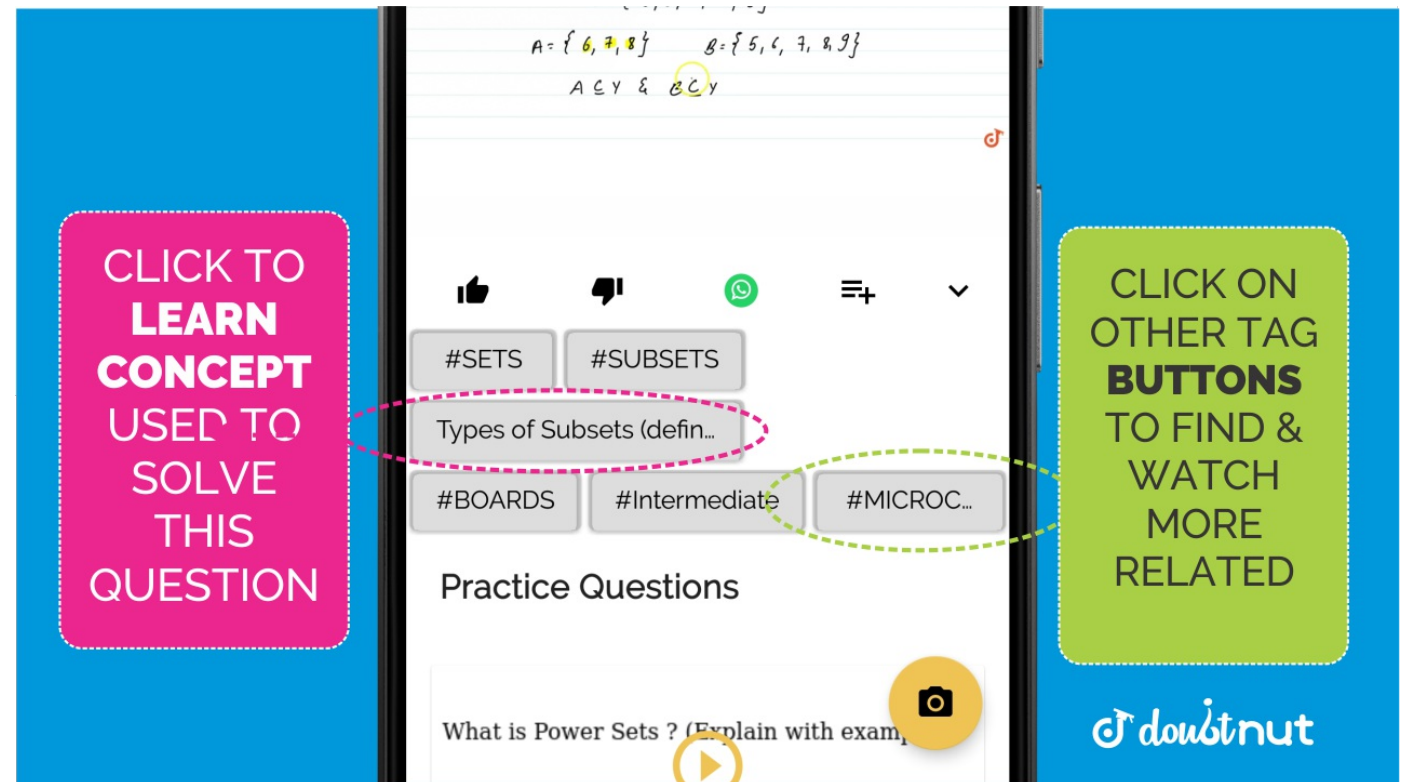
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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.7 - Q 4

47

Determine the smallest 3-digit number which is exactly divisible by 6, 8 and 12.

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**NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.7 - Q 5**

48

Determine the greatest 3-digit number exactly divisible by 8, 10 and 12. and 6, 8 and 10

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.7 - Q 6

49

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?

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.7 - Q 7

50

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.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.7 - Q 8

Find the least number which when divided by 6, 15 and 18 leave remainder 5 in each case.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.7 - Q 9

Find the smallest 4-digit number which is divisible by 18, 24 and 32

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.7 - Q 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?

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - EXERCISE 3.7 - Q 11

Find the LCM of the following numbers in which one number is the factor of the the Other. (a) 5, 20 (b) 6, 18 (c) 12, 48 (d) 9, 45 What do you observe in the results obtained?

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - SOLVED EXAMPLES - Q 1

Write all the factors of 68.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - SOLVED EXAMPLES - Q 2

Find the factors of 36.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - SOLVED EXAMPLES - Q 3

Write first five multiples of 6.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - SOLVED EXAMPLES - Q 4

Write all the prime numbers less than 15.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - SOLVED EXAMPLES - Q 5

Find the common factors of 75, 60 and 210

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Find the common multiples of 3, 4 and 9.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - SOLVED EXAMPLES - Q 7

Find the LCM of 12 and 18

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - SOLVED EXAMPLES - Q 8

Find the LCM of 24 and 90.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - SOLVED EXAMPLES - Q 9

Find the LCM of 40, 48 and 45

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - SOLVED EXAMPLES - Q 10

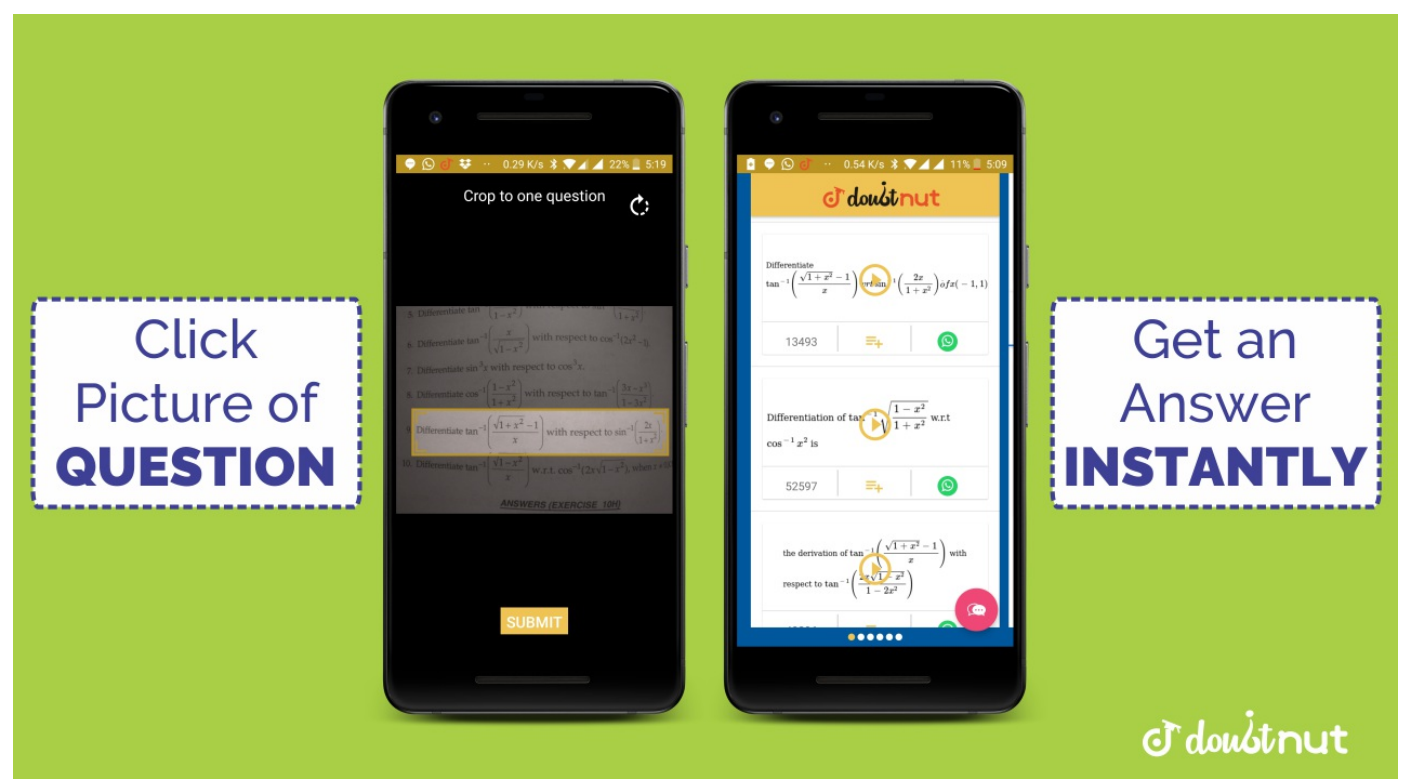
Find the LCM of 20, 25 and 30

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - SOLVED EXAMPLES - Q 11

Two tankers contain 850 litres and 680 liters of kerosene oil Respectively. Find the maximum capacity of a container which can measure the kerosene oil of both the tankers when used an exact number of times.

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - SOLVED EXAMPLES - Q 12

66

In a morning walk, three persons step off together. Their steps Measure 80 cm, 85 cm and 90 cm respectively. What is the minimum distance each should walk so that all can cover the same distance in complete steps?

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NCERT - CLASS 6 - CHAPTER 3 PLAYING WITH NUMBERS - SOLVED EXAMPLES - Q 14

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Find the least number which when divided by 12, 16, 24 and 36 leaves a remainder 7 in each case.

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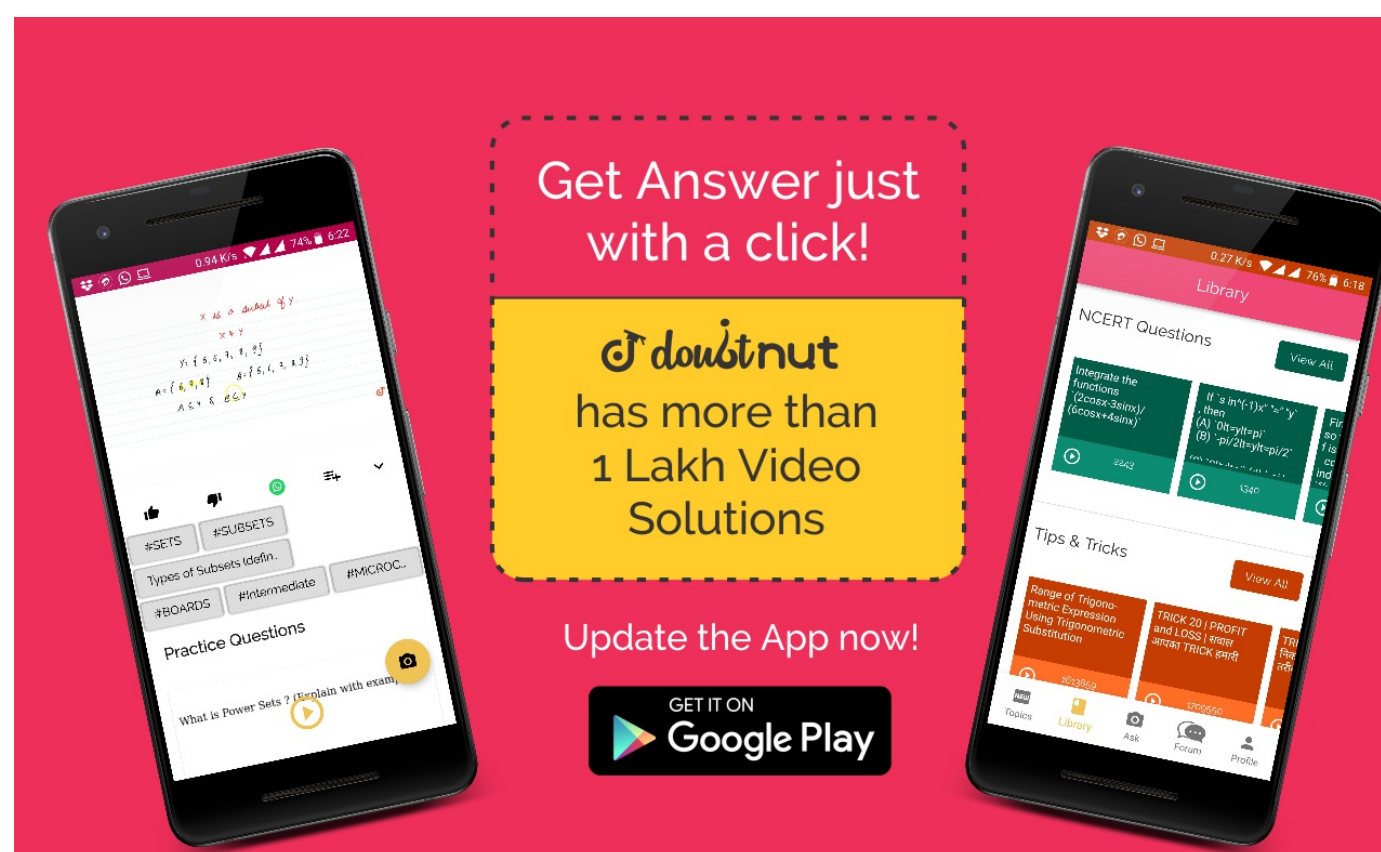
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