

MATHS

BOOKS - NCERT EXEMPLAR

NUMBER SYSTEM

Example Choose The Correct Answer

1.
$$3 \times 10000 + 0 \times 1000 + 8 \times 100 + 0 \times 10 + 7 \times 1$$
 is same as

A. 30087

B. 30807

C. 3807

D. 3087

Answer: B Watch Video Solution 2.1 billion is equal to A. 100 millions B. 10 millions C. 1000 lakhs

Answer: D

D. 10000 lakhs



3. Which of the following numbers in Roman Numerals is incorrect?

A. LXII B. XCI C. LC D. XLIV **Answer: C Watch Video Solution 4.** Which of the following is not defined? A.5 + 0B.5 - 0 $\mathsf{C.}\,5 imes0$ $\mathsf{D.}\,5 \div 0$ **Answer: D**

5. The product of a non-zero whole number and its successor is always divisible by

A. 2

B. 3

C. 4

D. 5

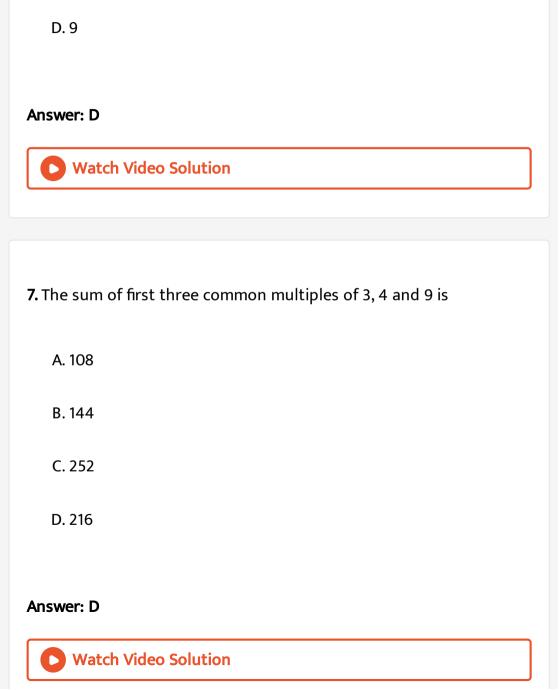
Answer: A



Watch Video Solution

6. The number of factors of 36 is

A. 6



B. 7

C. 8

Example Fill In The Blanks

1. In Indian System of Nume	ration, the number	61711682 is	written
using commas, as			

- A. 6, 171, 1, 682
- B. 617, 116, 82
- C. 6, 17, 11, 682
- D. 61, 71, 16, 82

Answer: C



- **2.** The smallest 4 digit number with different digits is _____ .
 - **Watch Video Solution**

						· .			
3.	Numbers	having	more	than	two	factors	are	called	
nu	mbers.								
	A. Even								
	B. Prime								
	C. Compo	site							
	D. Odd								
An	swer: C								
	Watch	Video S	olution						
Exa	mple True	Or False							

1. The number 58963 rounded off to nearest hundred is 58900.



- 2. LXXV is greater than LXXIV.
 - A. LXXIV
 - B. LXXV
 - C. cannot not determine
 - D. none of the above

Answer: B



- 3. If a number is divisible by 2 and 3, then it is also divisible by 6.
 - Watch Video Solution

1. Population of Agra and Aligarh districts in the year 2001 was 36,20, 436 and 29,92,286, respectively. What was the total population of the two districts in that year?



2. Estimate the product 5981×4428 by rounding off each number to the nearest (i) tens(ii) hundreds



3. Find the product 8739 imes 102 using distributive property.



4. Floor of a room measures 4.5 metres \times 3 metres. If each square tile is of side 0.5 m, find the minimum number of complete square marble slabs of equal size required to cover the entire floor.

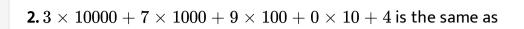


Exercise Choose The Correct Answer

- 1. The product of the place values of two 2's in 428721 is
 - A. 4
 - B. 40000
 - C. 400000
 - D. 40000000

Answer: C





A. 3794

B. 37940

C. 37904

D. 379409

Answer:



Watch Video Solution

3. If 1 is added to the greatest 7- digit number, it will be equal to

A. 10 thousand

B. 1 lakh

C. 10 lakh

D. 1 crore

Answer: D



Watch Video Solution

4. The expanded form of the number 9578 is

A.
$$9 \times 10000 + 5 \times 1000 + 7 \times 10 + 8 \times 1$$

B.
$$9 \times 1000 + 5 \times 100 + 7 \times 10 + 8 \times 1$$

$$\text{C.}\,9 \times 1000 + 57 \times 10 + 8 \times 1$$

D.
$$9 \times 100 + 5 \times 100 + 7 \times 10 + 8 \times 1$$

Answer: B



5. When rounded off to nearest thousands, the number 85642 is
A. 85600
B. 85700
C. 85000
D. 86000
Answer: D
Watch Video Solution
Watch Video Solution
6. The largest 4-digit number, using any one digit twice, from digits 5, 9, 2 and 6 is
6. The largest 4-digit number, using any one digit twice, from digits 5,
6. The largest 4-digit number, using any one digit twice, from digits 5, 9, 2 and 6 is

D.	9965

Answer:



Watch Video Solution

7. In Indian System of Numeration, the number 58695376 is written as

 $\mathsf{A.}\ 58,\ 69,\ 53,\ 76$

 $\mathsf{B.}\ 58,\ 695,\ 376$

 $\mathsf{C.}\,5,\,86,\,95,\,376$

D. 586, 95, 376

Answer: C



8. One million is equal to A. 1 lakh B. 10 lakh C. 1 crore D. 10 crore **Answer: Watch Video Solution** 9. The greatest number which on rounding off to nearest thousands gives 5000, is A. 5001 B. 5559 C. 5999

\Box	5400	
υ.	J433	

Answer:



Watch Video Solution

10. Keeping the place of 6 in the number 6350947 same, the smallest number obtained by rearranging other digits is

- A.6975430
- B. 6043579
- C.6034579
- D. 6034759

Answer:



11. Which of the following numbers in Roman numerals is incorrect?
A. LXXX
B. LXX
C. LX
D. LLX
•
Answer:
Watch Video Solution
Watch Video Solution
12. The largest 5-digit number having three different digits is
12. The largest 5-digit number having three different digits is
12. The largest 5-digit number having three different digits is A. 98978

Answer: C Watch Video Solution 13. The smallest 4-digit number having three different digits is A. 1102 B. 1012 C. 1020 D. 1002 **Answer: Watch Video Solution**



A. 31 B. 30 C. 29 D. 28 **Answer: C Watch Video Solution** 15. The product of successor and predecessor of 999 is A. 999000 B. 998000 C. 989000 D. 1998 **Answer:**



16. The product of a non-zero whole number and its successor is always

A. an even number

B. an odd number

C. a prime number

D. divisible by 3

Answer:



17. A whole number is added to 25 and the same number is subtracted from 25. The sum of the resulting numbers is

A. 0

B. 25

C. 50

D. 75

Answer: C



Watch Video Solution

18. Which of the following is not true?

A.
$$(7+8)+9=7+(8+9)$$

$$\texttt{B.} (7 \times 8) \times 9 = 7 \times (8 \times 9)$$

C.
$$7 + 8 \times 9 = (7 + 8) \times (7 + 9)$$

D.
$$7 \times (8+9) = (7 \times 8) + (7 \times 9)$$

Answer:

19. By using dot (\cdot) patterns, which of the following numbers can be arranged in all the three ways namely a line, a triangle and a rectangle?

A. 9

B. 10

C. 11

D. 12

Answer:



Watch Video Solution

20. Which of the following statements is not true?

- A. Both addition and multiplication are associative for whole numbers.
- B. Zero is the identity for muliplication of whole numbers.
- C. Addition and multiplication both are commutative for whole numbers.
- D. Multiplication is distributive over addition for whole numbers.

Answer: B



- 21. Which of the following statements is not true?
 - A.0 + 0 = 0
 - B.0 0 = 0
 - $\mathrm{C.}\,0\times0=0$

$$0.0 \div 0 = 0$$

Answer: D

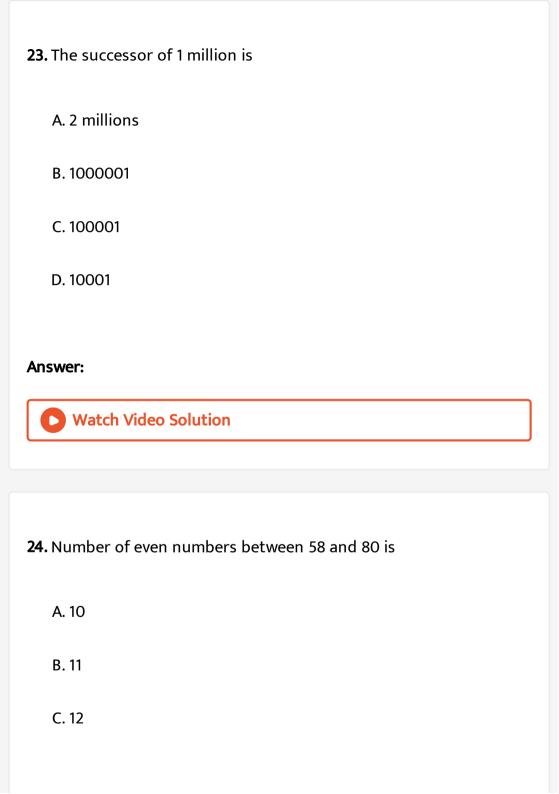


Watch Video Solution

- 22. The predecessor of 1 lakh is
 - A. 99000
 - B. 99999
 - C. 999999
 - D. 100001

Answer: B





_	
ח	12
υ.	נו

Answer:



Watch Video Solution

25. Sum of the number of primes between 16 to 80 and 90 to 100 is

A. 20

B. 18

C. 17

D. 16

Answer:



- **26.** Which of the following statements is not true?
 - A. The HCF of two distinct prime numbers is 1
 - B. The HCF of two co prime numbers is 1
 - C. The HCF of two consecutive even numbers is 2
 - D. The HCF of an even and an odd number is even.

Answer: D



- **27.** The number of distinct prime factors of the largest 4-digit number is
 - A. 2
 - B. 3
 - C. 5

Α	n	C١	۸	ıe	r.
\boldsymbol{r}		21	"		



Watch Video Solution

28. The number of distinct prime factors of the smallest 5-digit number is

A. 2

B. 4

C. 6

D. 8

Answer:



29. The sum of the prime factors of 1729 is
A. 13
B. 19
C. 32
D. 39
Answer:
Watch Video Solution
30. The greatest number which always divides the product of the
predecessor and successor of an odd natural number other than 1, is
A. 6
B. 4
C. 16

Answer: B



Watch Video Solution

- **31.** The number of common prime factors of 75, 60, 105 is
 - A. 2
 - B. 3
 - C. 4
 - D. 5

Answer: A



32. Which of the following pairs is not coprime?
A. 8, 10
B. 11, 12
C. 1, 3
D. 31, 33
Answer:
Watch Video Solution
Watch Video Solution
Watch Video Solution 33. Which of the following numbers is divisible by 11?
33. Which of the following numbers is divisible by 11?
33. Which of the following numbers is divisible by 11? A. 1011011

D. 3333333

Answer: C



Watch Video Solution

- **34.** LCM of 10, 15 and 20 is
 - A. 30
 - B. 60
 - C. 90
 - D. 180

Answer:



1. In Roman numeration, a symbol is not repeated more than three times.



2. In Roman numeration, if a symbol is repeated, its value is multiplied as many times as it occurs.



3. $5555 = 5 \times 1000 + 5 \times 100 + 5 \times 10 + 5 \times 1$



4. $39746 = 3 \times 10000 + 9 \times 1000 + 7 \times 100 + 4 \times 10 + 6$

Watch Video Solution

$$\mathbf{5.82546} = 8 imes 1000 + 2 imes 1000 + 5 imes 100 + 4 imes 10 + 6$$

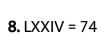
 $532235 = 5 \times 100000 + 3 \times 10000 + 2 \times 1000 + 2 \times 100 + 3 \times 10 + 5$



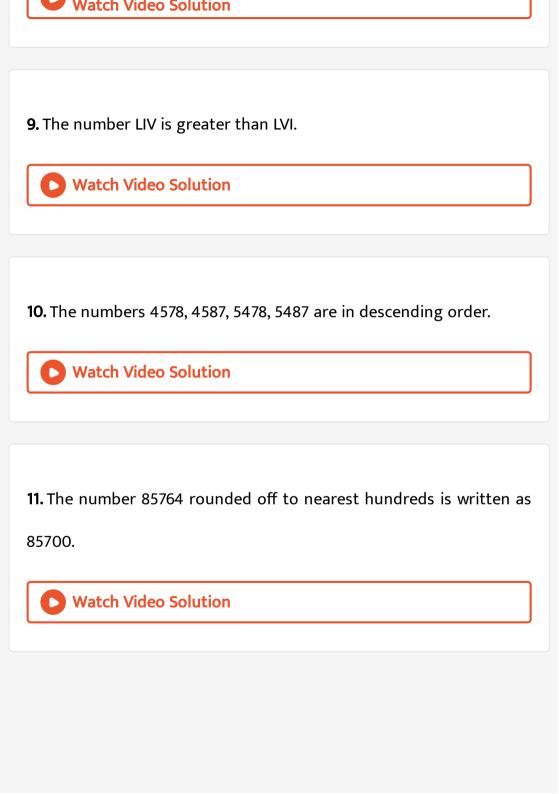
6.







7. XXIX = 31



12. Estimated sum of 7826 and 12469 rounded off to hundreds is 20,000.

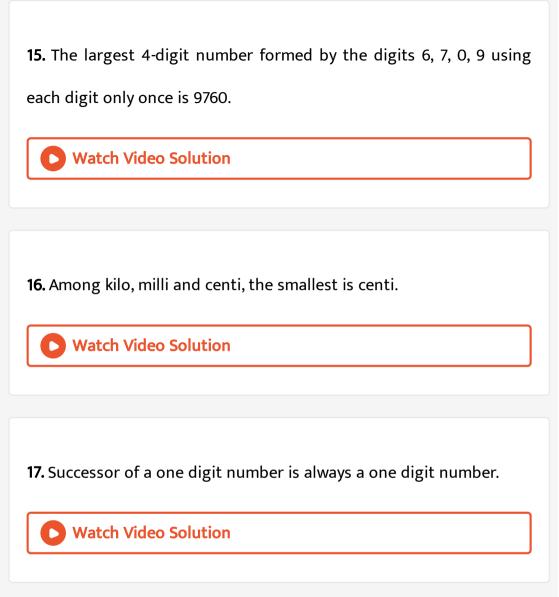


13. The largest six digit telephone number that can be formed by using digits 5, 3, 4, 7, 0, 8 only once is 875403.



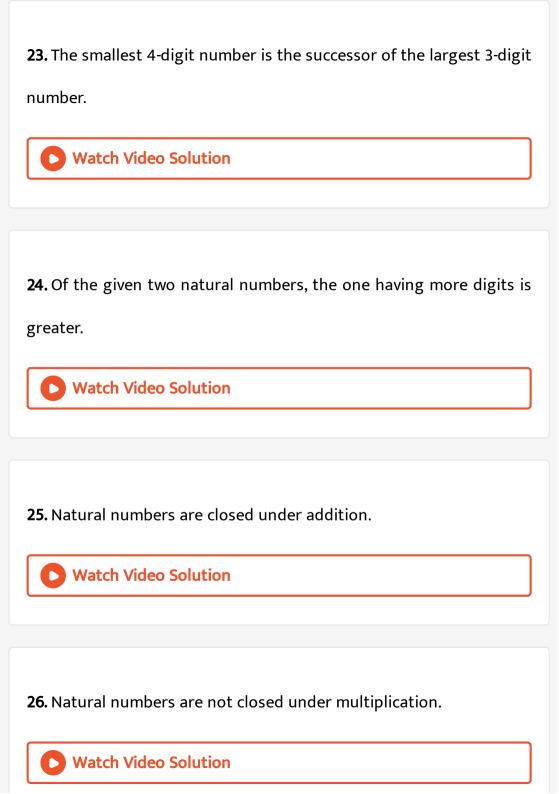
14. The number 81652318 will be read as eighty one crore six lakh fifty two thousand three hundred eighteen.





18. Successor of a 3-digit number is always a 3-digit number.

19. Predecessor of a two digit number is always a two digit number.
Watch Video Solution
20. Every whole number has its successor.
Watch Video Solution
21. Every whole number has its predecessor.
Watch Video Solution
22. Between any two natural numbers, there is one natural number.
Watch Video Solution



27. Natural numbers are closed under subtraction.
Watch Video Solution
28. Addition is commutative for natural numbers.
Watch Video Solution
29. 1 is the identity for addition of whole numbers.
Watch Video Solution
30. 1 is the identity for multiplication of whole numbers.
Watch Video Solution

31. There is a whole number which when added to a whole number, gives the number itself.



32. There is a natural number which when added to a natural number, gives the number itself.



33. If a whole number is divided by another whole number, which is greater than the first one, the quotient is not equal to zero.



34. Any non-zero whole number divided by itself gives the quotient 1.

C	Watch Video Solution

35. The product of two whole numbers need not be a whole number.



36. A whole number divided by another whole number greater than 1 never gives the quotient equal to the former.



37. Every multiple of a number is greater than or equal to the number.



38. The number of multiples of a given number is finite.
Watch Video Solution
39. Every number is a multiple of itself.
Watch Video Solution
40. Sum of two consecutive odd numbers is always divisible by 4.
Watch Video Solution
41. If a number divides three numbers exactly, it must divide their sum exactly.
Watch Video Solution

42. If a number exactly divides the sum of three numbers, it must exactly divide the numbers separately.



43. If a number is divisible both by 2 and 3, then it is divisible by 12.



44. State True or False:

A number with three or more digits is divisible by 6, if the number formed by its last two digits (i.e., ones and tens) is divisible by 6.



45. If the sum of the digits of a number is divisible by 3, then the number itself is divisible by 9.

Watch Video Solution

46. The LCM of two numbers is 108 and their HCF is 4. If one of the number is 12, then find the other number.



47. The Highest Common Factor of two or more numbers is greater than their Lowest Common Multiple.



48. LCM of two or more numbers is divisible by their HCF.

Watch Video Solution
49. LCM of two numbers is 28 and their HCF is 8. If one of the number
is 4,the other number is:
Watch Video Solution
50. LCM of two or more numbers may be one of the numbers.
Watch Video Solution
51. HCF of two or more numbers may be one of the numbers.
Watch Video Solution
52. Every whole number is the successor of another whole number.



53. Sum of two whole numbers is always less than their product.



54. If the sum of two distinct whole numbers is odd, then their difference also must be odd.



55. Any two consecutive numbers are coprime.



56. If the HCF of two numbers is one of the numbers, then their LCM is the other number.



57. The HCF of two numbers is smaller than the smaller of the numbers.

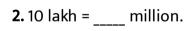


58. The LCM of two numbers is greater than the larger of the numbers.



59. The LCM of two coprime numbers is equal to the product of the
numbers.
Watch Video Solution
Exercise Fill In The Blanks
1. 10 million = crore.







3. 1 metre = ____ millimetres.

Watch Video Solution
4. 1 centimetre = millimetres.
Watch Video Solution
5. 1 kilometre = millimetres.
Watch Video Solution
6. 1 gram = milligrams. Watch Video Solution
7.1 litre = millilitres.
Watch Video Solution

8. 1 kilogram = miligrams.
Watch Video Solution
9. 100 thousands = lakh.
Watch Video Solution
10. Height of a person is $1m\ 65cm$. His height in millimeters is
A. $1650mm$
B. $16500mm$
C.165mm
D. $16550mm$

Answer: A **Watch Video Solution** 11. Length of river 'Narmada' is about 1290km. Its length in metres is . Watch Video Solution 12. The distance between Sringar and Leh is 422km. The same distance in metres is . **Watch Video Solution**

13. Writing of numbers from the greatest to the smallest is called an arrangement in ____ order.



watch video Solution
14. By reversing the order of digits of the greatest number made by
five different non-zero digits, the new number is the number of
five digits.
Watch Video Solution
15. By adding 1 to the greatest digit number, we get ten lakh.
Watch Video Solution
16. The number five crore twenty three lakh seventy eight thousand

four hundred one can be written, using commas, in the Indian

System of Numeration as ____.

17. In Roman Numeration, the symbol X can be subtracted from,
M and C only.
Watch Video Solution
18. The number 66 in Roman numerals is
Watch Video Solution
19. The smallest whole number is
Watch Video Solution
20. Successor of 106159 is
Watch Video Solution

21. Predecessor of 100000 is
Watch Video Solution
22. 400 is the predecessor of
Watch Video Solution
23 is the successor of the largest 3 digit number.
Watch Video Solution
24. If 0 is subtracted from a whole number, then the result is the itself .
Watch Video Solution

○ Watc	n Video Solution
26. Whole n	umbers are closed under and under
Watc	n Video Solution
27. Natural	numbers are closed under and under
	numbers are closed under and under 1 Video Solution
○ Watc	

9. Multiplication is distributive over for whole numbers.
Watch Video Solution
0. $2395 imes ___ = 6195 imes 2395$
Watch Video Solution

31.
$$1001 imes 2002 = 1001 imes (1001 + ____)$$



32. $10001 \times 0 =$ _____



33. 2916	×		=	0
-----------------	---	--	---	---



$34.9128 \times _{---} = 9128$



.

35. $125 + (68 + 17) = (125 + ___) + 17$



36. $8925 \times 1 =$ ____



37.
$$19 \times 12 + 19 = 19 \times (12 + __)$$

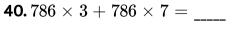


38. $24 \times 35 = 24 \times 18 + 24 \times$ _____



39.
$$32 \times (27 \times 19) = (32 \times ___) \times 19$$







41. $24 imes25=24 imes$
Watch Video Solution
42. A number is a of each of its factor.
Watch Video Solution
43. is a factor of every number.
Watch Video Solution
44. The number of factors of a prime number is
Watch Video Solution

45. A number for which the sum of all its factors is equal to twice the
number is called a number.
Watch Video Solution
46. The numbers having more than two factors are called
numbers.
Watch Video Solution
47. 2 is the only number which is even.
Watch Video Solution
48. Two numbers having only 1 as a common factor are called
numbers.

Watch Video Solution
49. Number of primes between 1 to 100 is
Watch Video Solution
50. If a number has in ones place, then it is divisible by 10.
Watch Video Solution
51. A number is divisible by 5, if it has or in its ones place.
Watch Video Solution
52. A number is divisible by if it has any of the digits 0, 2, 4, 6, or
8 in its ones place.

Watch Video Solution
53. If the sum of the digits in a number is a of 3, then the
number is divisible by 3.
Watch Video Solution



54. The LCM of two or more given numbers is the lowest of their common ____.



55. The HCF of two or more given numbers is the highest of their common .



1. Given below are two columns – Column I and Column II. Match each item of Column I with the corresponding item of Column II.

	Column I	Column II
(1)	The difference of two consecutive whole numbers	(a) odd
(11)	The product of two non-zero consecutive whole numbers	(b) 0
(111)	Quotient when zero is divided by another non-zero whole number	(c) 3
(iv)	2 added three times, to the smallest whole number	(d) 1
(v)	Smallest odd prime number	(e) 6 (f) even



Watch Video Solution

2. Arrange the followng numbers in descending order:

8435, 4835, 13584, 5348, 25843



3. Of the following numbers which is the greatest? Which is the smallest

38051425, 30040700, 67205602



- 4. Write in expanded form:
- (a) 74836
- (b) 574021
- (c) 8907010



5. As per the census of 2001, the population of four states are given below. Arrange the states in ascending and descending order of

their population.	
(a) Maharashtra	96878627
(b) Andhra Pradesh	76210007
(c) Bihar	82998509

(d) Uttar Pradesh 166197921



6. India's population has been steadily increasing from 439 millions in 1961 to 1028 millions in 2001. Find the total increase in population from 1961 to 2001. What is the increase in population?



7. Radius of the Earth is 6400km and that of Mars is 4300000m.

Whose radius is bigger and by how much?



8. In 2001, the populations of Tripura and Meghalaya were 3,199,203 and 2,318,822, respectively. Write the populations of these two states in words.



9. In a city, polio drops were given to 2,12,583 children on Sunday in March 2008 and to 2,16,813 children in the next month. Find the difference of the number of children getting polio drops in the two months.



10. A person had Rs 1000000 with him. He purchased a colour T.V. for Rs 16580, a motor cycle for Rs 45890 and a flat for Rs 870000. How much money was left with him?

Watch Video Solution

11. Out of 180000 tablets of Vitamin A, 18734 are distributed among the students in a district. Find the number of the remaining vitamin tablets.



12. Chinmay had Rs 610000. He gave Rs 87500 to Jyoti, Rs 126380 to Javed and Rs 350000 to John. How much money was left with him?



13. Find the difference between the smallest number of eight digits and the largest number of seven digits .



14. A mobile number consists of ten digits. The first four digits of the number are 9, 9, 8 and 7. The last three digits are 3, 5 and 5. The remaining digits are distinct and make the mobile number, the greatest possible number. What are these digits?



Watch Video Solution

15. A mobile number consists of ten digits. First four digits are 9,9,7 and 9. Make the smallest mobile number by using only one digit twice from 8, 3, 5, 6, 0.



Watch Video Solution

16. In a five digit number, digit at ten's place is 4, digit at unit's place is one fourth of ten's place digit, digit at hunderd's place is 0, digit at thousand's place is 5 times of the digit at unit's place and ten

thousand's place digit is double the digit at ten's place. Write the number.



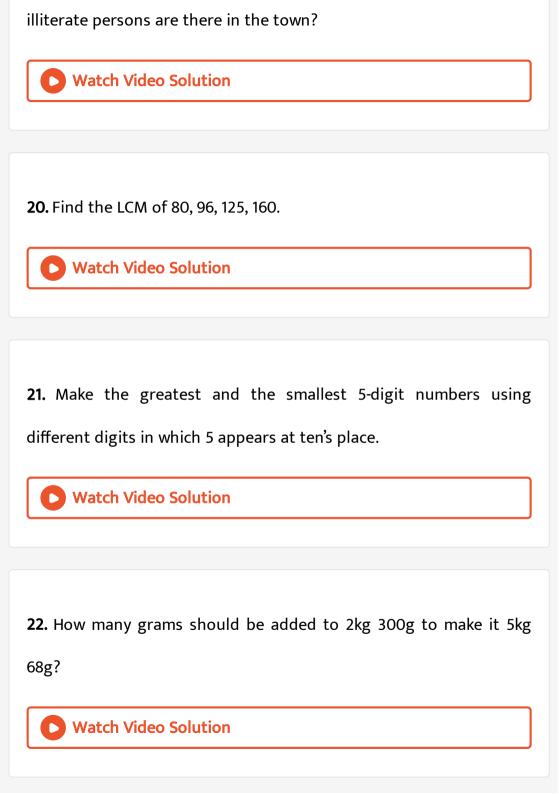
17. Find the sum of the greatest and the least six digit numbers formed by the digits 2, 0, 4, 7, 6, 5 using each digit only once.



18. A factory has a container filled with 35874 litres of cold drink. In how many bottles of 200 ml capacity each can it be filled?



19. The population of a town is 450772. In a survey, it was reported that one out of every 14 persons is illiterate. In all how many



23. A box contains 50 packets of biscuits each weighing 120g. How many such boxes can be loaded in a van which cannot carry beyond 900kg?



24. How many lakhs make five billions?



25. How many millions make 3 crores?



26. Estimate each of the following by rounding off each number to nearest hundreds:

- (a) 874 + 478
- (b) 793 + 397
- (c) 11244 + 3507
- (d) 17677 + 13589



Watch Video Solution

- 27. Estimate each of the follwoing by rounding off each number to nearest tens:
- (a) 11963 9369
- (b) 76877 7783
- (c) 10732 4354
- (d) 78203 16407



28. Estimate each of the following products by rounding off each number to nearest tens:

- (a) 87 imes 32
- (b) 311×113
- (c) 3239 imes 28
- (d) 1385 imes 789



29. The population of a town was 78787 in the year 1991 and 95833 in the year 2001. Estimate the increase in population by rounding off each population to nearest hundreds.



30. Estimate the product 758 imes 6784 by rounding to nearest hundreds



31. A garment factory produced 216315 shirts, 182736 trousers and 58704 jackets in a year. What is the total production of all the three items in that year?



32. Find the LCM of 160, 170 and 90.



33. A vessel has 13litres 200mL of fruit juice. In how many glasses each of capacity 60mL can it be filled?



- **34.** Determine the sum of the four numbers as given below:
- (a) successor of 32
- (b) predecessor of 49
- (c) predecessor of the predecessor of 56
- (d) successor of the successor of 67



Watch Video Solution

35. A loading tempo can carry 482 boxes of biscuits weighing 15kg each, whereas a van can carry 518 boxes each of the same weight. Find the total weight that can be carried by both the vehicles.



Watch Video Solution

36. In the marriage of her daughter, Leela spent Rs 216766 on food and decoration, Rs 122322 on jewellery, Rs 88234 on furniture and Rs

26780 on kitchen items. Find the total amount spent by her on the above items.



37. A box contains 5 strips having 12 capsules of 500mg medicine in each capsule. Find the total weight in grams of medicine in 32 such boxes.



38. Determine the least number which when divided by 3, 4 and 5 leaves remainder 2 in each case.



39. A merchant has 120 litres of oil of one kind, 180 litres of another kind and 240 litres of third kind. He wants to sell the oil by filling the three kinds of oil in tins of equal capacity. What should be the greatest capacity of such a tin?



40. Find a 4-digit odd number using each of the digits 1, 2, 4 and 5 only once such that when the first and the last digits are interchanged, it is divisible by 4.



41. Using each of the digits 1, 2, 3 and 4 only once, determine the smallest 4-digit number divisible by 4.



42. Fatima wants to mail three parcels to three village schools. She finds that the postal charges are Rs 20, Rs 28 and Rs 36, respectively. If she wants to buy stamps only of one denomination, what is the greatest denomination of stamps she must buy to mail the three parcels?



43. Three brands A, B and C of biscuits are available in packets of 12, 15 and 21 biscuits respectively. If a shopkeepeer wants to buy an equal number of biscuits, of each brand, what is the minimum number of packets of each brand, he should buy?



44. The floor of a room is 8m 96cm long and 6m 72cm broad. Find the minimum number of square tiles of the same size needed to cover the entire floor.



45. In a school library, there are 780 books of English and 364 books of Science. Ms. Yakang, the librarian of the school wants to store these books in shelves such that each shelf should have the same number of books of each subject. What should be the minimum number of books in each shelf?



46. In a colony of 100 blocks of flats numbering 1 to 100, a school van stops at every sixth block while a school bus stops at every tenth

block. On which stops will both of them stop if they start from the entrance of the colony?



- 47. Test the divisiblity of following numbers by 11
- (a) 5335
- (b) 9020814



- 48. Using divisiblity tests, determine which of the following numbers are divisible by 4?
- (b) 21084

(a) 4096

(c) 31795012



49. Using divisiblity test. determine which of the following numbers are divisible by 9?

- (a) 672
- (b) 5652

