



## MATHS

# BOOKS - HT Olympiad Previous Year Paper

## KNOWING OUR NUMBERS

### Mathematical Reasoning

1. Estimate the quotient to the nearest tens.

$$163 \div 14$$

A. 10

B. 16

C. 20

D. 18

**Answer: B**



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2. Find the sum of the place values of digits 2 and 7 in the number 92,37,658.

A. 200700

B. 270000

C. 207000

D. 207090

**Answer: C**



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3. What is the number four billion six hundred thousand fifty written in expanded form ?

A.  $4,000,000,000 + 600,000 + 50$

B.  $4,000,000,000 + 600,00 + 50$

C.  $4,000,000,000 + 650,000$

D.  $4,000 + 6,000 + 50$

**Answer: A**



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4. When a Roman numeral of smaller value is put between two numbers of greater value, it is subtracted from the numeral on its \_\_\_\_\_.

A. Left

B. Right

C. Both sides

D. Next numeral from left

**Answer: B**



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5. The difference of the greatest 6-digit number and the smallest 4-digit number is \_\_\_\_\_.

A. 988999

B. 998999

C. 99899

D. 998099

**Answer: B**



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6. The largest 4-digit and smallest 4-digit numbers formed by using the digits 4,0,3,7 (each digit used only once) respectively are\_\_\_\_\_.

A. 4370, 4307

B. 3740, 3047

C. 7403, 3704

D. 7430, 3047

**Answer: D**



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7. Commas are inserted in a number after each \_\_\_\_\_.

A. Place

B. Digit

C. Period

D. None of these

**Answer: C**





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8. Find the predecessor of successor of MDVI.

A. 1500

B. 1506

C. 1507

D. 2000

**Answer: B**



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9. The number 826315269 can be written in International System of Numeration as \_\_\_\_\_.

A. Eight hundred twenty six million three hundred fifteen thousand two hundred sixty nine

B. Eighty two crore sixty three lakh fifteen thousand two hundred and sixty nine

C. Eight two six lakh three one thousand fifty two hundred sixty nine

D. None of these

**Answer: A**



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**10.** A number of digits in a number starting with 72 crores will have

A. 7 digits

B. 8 digits

C. 9 digits

D. 6 digits

**Answer: C**





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11. A machine produces 2825 screws in a day. Which of the following is the best estimate of the number of screws to the nearest thousands ?

A. 3500

B. 5000

C. 3000

D. 2900

**Answer: C**



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12. The number which when rounded off to the nearest thousands gives 6000 is

A. 6452

B. 5478

C. 6964

D. 6598

**Answer: A**



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**13.** How many 3-digit numbers can you form by using the digits 6,0,8 each only once ?

A. 3

B. 4

C. 5

D. 6

**Answer: B**



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14. Place value of a digit decreases by times as it moves place by place from left to right.

A. 100

B.  $\frac{1}{10}$

C. 10

D. 1000

**Answer: B**



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15. What will you add to DCCCXLI to make it MLI ?

A. MCIX

B. XCII

C. CCX

D. CLIV

**Answer: C**



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**16.** Billions period consists of the places \_\_\_\_\_.

A. B,TB

B. B,TB,HB

C. TTH,HTH,B

D. O,T,B

**Answer: B**



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17. Raghu is 21 years old and Kavita is 72 years old.

The sum of their ages (in years) is\_\_\_\_\_.

A. XXXIII

B. XCIII

C. CXIII



D. LXXXVIII

**Answer: B**



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**18.** First\_\_\_\_\_places from the right are the same in both the Indian and the International systems of numeration.

A. Two

B. Four

C. Five

D. Three

**Answer: D**



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**19.** Estimate the difference of 15875 and 7892 by rounding off each number to nearest hundreds.

A. 7983

B. 8100

C. 7900

D. 8000

**Answer: D**



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**20.** Place value and face value are always equal at which place ?

A. Hundreds

B. Ones

C. Thousands

D. Tens

**Answer: B**





## Everyday Mathematics

1. A shopkeeper has 423kg of sugar. He sells 42 kg of sugar every day. Estimate how much sugar is left after 6 days scale to the nearest hundred.

A. 200kg

B. 170kg

C. 175kg

D. 150kg

**Answer: A**



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2. Jatin deposited Rs. 35673 in his bank account on Tuesday and withdrew Rs. 3568 on Wednesday. He again deposited Rs 24113 on Friday. What is the total amount of money in his account on Saturday ?

- A. Rs 56218
- B. Rs. 57318
- C. Rs. 55118
- D. Rs. 50218

**Answer: A**



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3. The distance between Akash's school and his home is 2km 385m. Every day, he walks to and from the school. Calculate the total distance covered by him from Monday to Friday.

A. 23km 870 m

B. 23km 850m

C. 21km 860m

D. 20km 850m

**Answer: B**



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4. 950 crankcases are manufactured every day in a factory. How many such cases will be manufactured altogether in the months of October, November and December ? (Assume that the factory works on all days in these 3 months).

A. 83700

B. 85400

C. 84700

D. 87400

**Answer: D**



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5. Anshu multiplied 160 by 89 instead of multiplying by 79. How much was his answer greater than the correct answer ?

A. 1600

B. 16000

C. 10060



D. 10640

**Answer: A**



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## Achievers Section Hots

**1. Fill in the blanks**

(i) The number 825642 rounded off to the nearest thousands is   P  .

(ii) Estimated product of 4023 and 198 is   Q  .

(iii) CXXXI is written in Hindu-Arbaic numeral as   R  .

- |    |          |          |          |
|----|----------|----------|----------|
|    | <i>P</i> | <i>Q</i> | <i>R</i> |
| A. | 820000   | 800000   | 131      |
|    | <i>P</i> | <i>Q</i> | <i>R</i> |
| B. | 826000   | 800000   | 131      |
|    | <i>P</i> | <i>Q</i> | <i>R</i> |
| C. | 826000   | 850000   | 135      |
|    | <i>P</i> | <i>Q</i> | <i>R</i> |
| D. | 825000   | 800000   | 135      |

**Answer: B**



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2. The difference between the place values of 8 in the greatest and the smallest 4-digit numbers formed by using the digits 3,8,0,5 (each digit used only once) is

A. 8998

B. 6992

C. 7992

D. 5998

**Answer: C**



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**3. State 'T' for true and 'F' for false**

(I) Rounding off 2560 to the nearest thousands, gives 2000

(II) Place value of 9 in 974304200 is ninety crore.

(III) 1 lakh=1000 thousand

(IV) Roman numeral for the smallest 4-digit number

is M.

A.  $I$   $II$   $III$   $IV$   
 $T$   $F$   $T$   $F$

B.  $I$   $II$   $III$   $IV$   
 $F$   $F$   $T$   $T$

C.  $I$   $II$   $III$   $IV$   
 $I$   $T$   $T$   $T$

D.  $I$   $II$   $III$   $IV$   
 $F$   $T$   $F$   $T$

**Answer: D**



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4. If a new number is formed by interchanging the tens and thousands place digits of 8727, then what is the relation between them ?

A. New number is greater than the original number

B. New number is smaller than the original number

C. New number is equal to the original number

D. Can't be determined

**Answer: B**



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## 5. Match the following

	Column I		Column II
(i)	100 crores	(P)	1 thousand
(ii)	10 lakhs	(Q)	1 lakh
(iii)	100 thousands	(R)	1 billion
(iv)	100 tens	(S)	1 million

A.

$(i) \rightarrow (P), (ii) \rightarrow (Q), (iii) \rightarrow (S), (iv) \rightarrow (R)$

B.

$(i) \rightarrow (R), (ii) \rightarrow (S), (iii) \rightarrow (P), (iv) \rightarrow (Q)$

C.

$(i) \rightarrow (R), (ii) \rightarrow (S), (iii) \rightarrow (Q), (iv) \rightarrow (P)$

D.

$(i) \rightarrow (P), (ii) \rightarrow (S), (iii) \rightarrow (Q), (iv) \rightarrow (R)$

**Answer: C**



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