



# MATHS

## BOOKS - HT Olympiad Previous Year Paper

### DATA HANDLING

#### Mathematical Reasoning

1. If \* represents 5 erasers, then number of symbols to be drawn to represent 65 erasers

is \_\_\_\_\_

A. 12

B. 13

C. 10

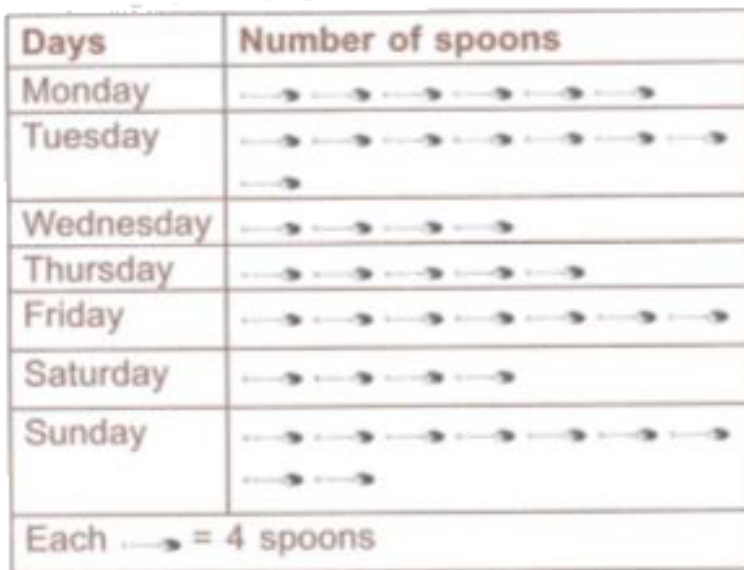
D. 5

**Answer: B**



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2. The sale of number of spoons on different days of a week is shown below. Study the pictograph carefully and answer the following questions



How many more spoons were sold on Friday than on Wednesday ?

A. 4

B. 12

C. 8

D. 16

**Answer: B**



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**3.** The sale of number of spoons on different days of a week is shown below. Study the pictograph carefully and answer the following

# questions

Days	Number of spoons
Monday	→ → → → → → →
Tuesday	→ → → → → → → → → →
Wednesday	→ → → →
Thursday	→ → → → → →
Friday	→ → → → → → → → →
Saturday	→ → → →
Sunday	→ → → → → → → → → → →
Each → = 4 spoons	

If one spoon was sold for Rs 70, then what was the total earning on Tuesday ?

A. Rs 2300

B. Rs 6500

C. Rs 1800

D. Rs 2240

**Answer: D**



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4. The Delhi School's football team washed bikes every Sunday for a month to raise money for the local children's hospital. The students charged Rs 100 for each bike they washed. The pictograph below shows the total number of bike washed by the team.

## Bike Wash Fundraiser

Sunday	Number of bikes washed
1	
2	
3	
4	
Each  = 15 bikes	

What is the total amount of money raised by the football team ?

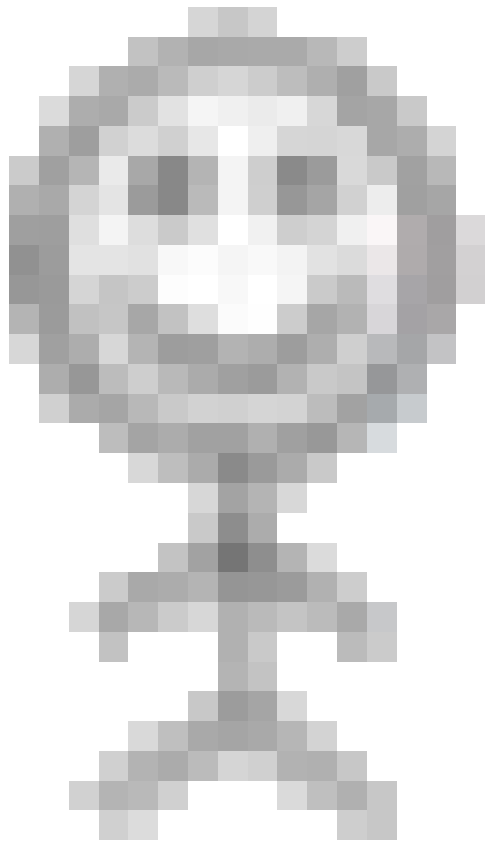
- A. Rs 12000
- B. Rs 18000
- C. Rs 55000
- D. Rs 16000

**Answer: B**



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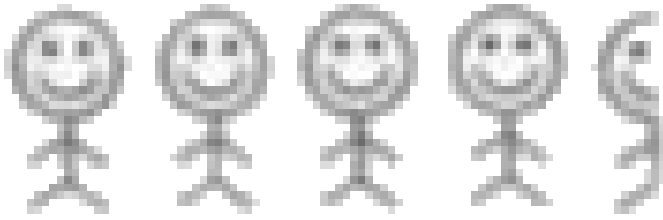
5. If

represents

2

persons.

then



represents \_\_\_\_ persons.

- A. 9
- B. 10
- C. 12
- D. None of these


**Answer: A**



6. In a tally marks, a group of eight marks represented as

A. 

B. 

C. 

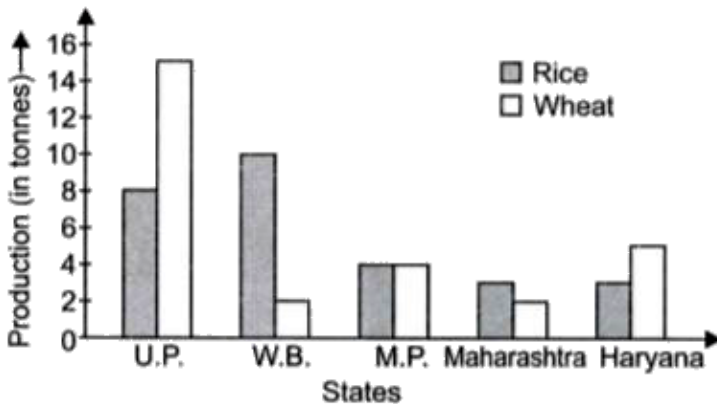
D. 

**Answer: B**



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7. Study the given bar graph carefully and answer the questions given below



Which state is the largest producer of rice ?

A. U.P

B. W.B

C. M.P

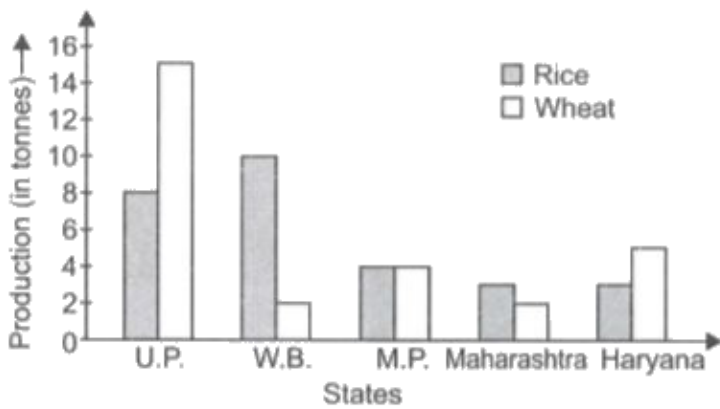
D. Haryana

**Answer: B**



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**8.** Study the given bar graph carefully and answer the questions given below



Which state has the total production of rice and wheat as its maximum?

- A. U.P
- B. Maharashtra
- C. Haryana
- D. W.B

**Answer: A**



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**9.** Study the given table carefully and answer the following questions.

Schools	Number of trees planted
School A	
School B	
School C	
School D	
School E	

How many schools have planted more than 7 trees ?

A. 4

B. 3

C. 2

D. 5

**Answer: B**



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10. Study the given table carefully and answer the following questions.

Schools	Number of trees planted
School A	
School B	
School C	
School D	
School E	

Find the total number of trees planted by all the five schools.

A. 28

B. 30

C. 32

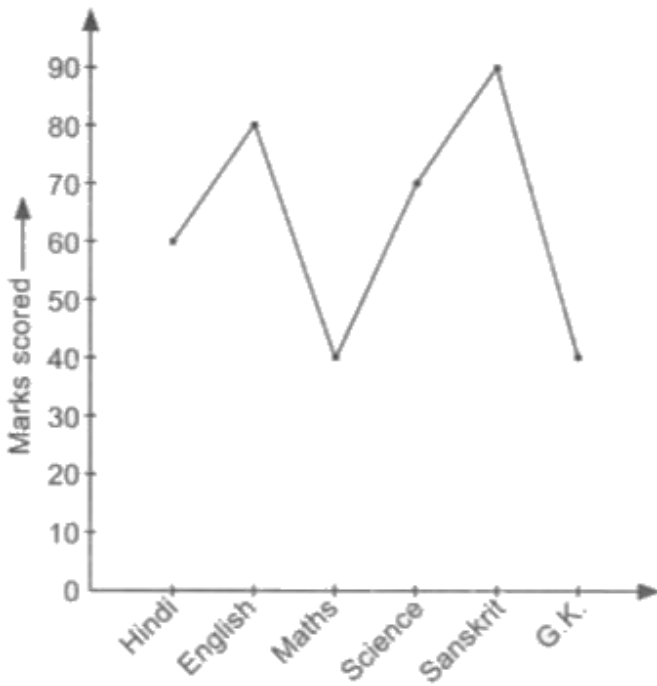
D. 42

**Answer: D**



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**11.** Given line graph shows the marks scored by Raghav in each subject in exams. Study the graph carefully and answer the following questions.



In which subject he got second highest marks ?

A. Sanskrit

B. Maths

C. English

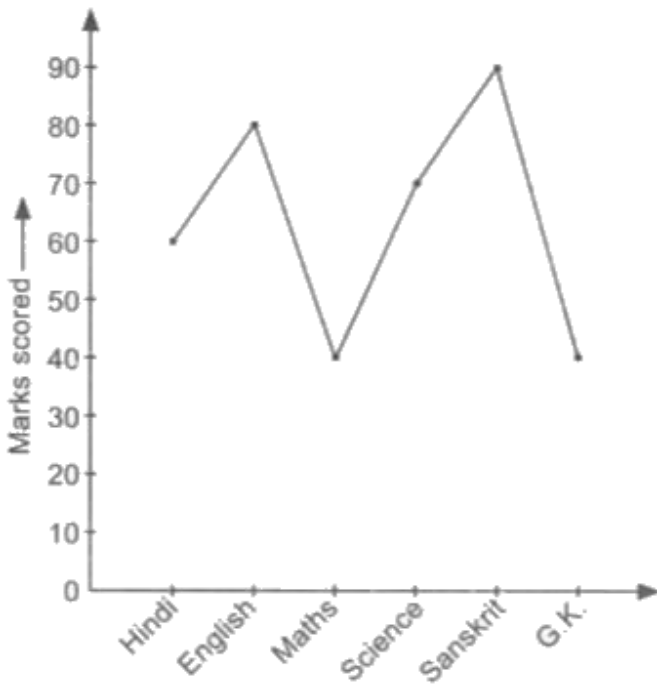
D. G.K

**Answer: A**



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**12.** Given line graph shows the marks scored by Raghav in each subject in exams. Study the graph carefully and answer the following questions.



Find the difference between the marks scored in Maths and Sanskrit.

A. 50

B. 60

C. 30

D. 90

**Answer: A**



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**13.** Table-I and Table-II shows the number of Government employees in some cities. Study the table and answer the following questions

Name of City	No. of Govt. employees
Delhi	4200
Mumbai	3600
Chennai	3000

Table - I

Name of City	No. of Govt. employees
Delhi	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Mumbai	?
Chennai	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Table - II

How many employees does each  represent ?

- A. 500
- B. 600
- C. 700
- D. 800

**Answer: B**



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**14.** Table-I and Table-II shows the number of Government employees in some cities. Study the table and answer the following questions

Name of City	No. of Govt. employees
Delhi	4200
Mumbai	3600
Chennai	3000

**Table - I**

Name of City	No. of Govt. employees
Delhi	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Mumbai	?
Chennai	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

**Table - II**



Which of the following is the correct representation of the number of employees in Mumbai ?

A.

B.

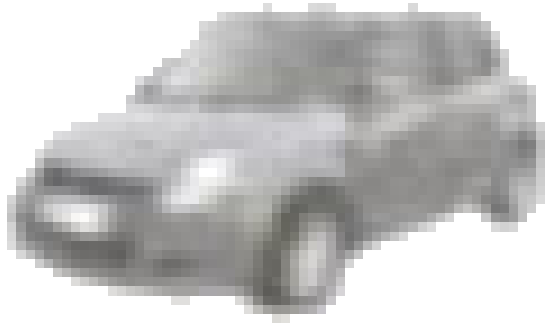
C.

D.

**Answer: B**



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15. If

represents 25 cars, then how many cars does



represent ?

A. 100

B. 16

C. 20







D. 25

**Answer: A**



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**16.** The pictograph shows different subject books which are kept in a library. Study the pictograph and answer the following questions.

Subject	Number of books
Hindi	
English	
History	
Science	
Maths	
Each  = 100 books	

How many English books are there in the library ?







- A. 800
- B. 700
- C. 500
- D. 600

**Answer: A**



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17. The pictograph shows different subject books which are kept in a library. Study the pictograph and answer the following questions.

Subject	Number of books
Hindi	
English	
History	
Science	
Maths	
Each  = 100 books	

How many more Science books than History books are there in the library ?

A. 400

B. 200

C. 300

D. 500

**Answer: B**



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**18.** The points (out of 100) obtained by 28 students in a quiz are listed as below :

80, 10, 20, 60, 50, 50, 50, 10, 10, 90, 70, 80, 10,

50, 80, 30, 10, 80, 100, 100, 30, 40, 80, 70, 80,  
90, 20, 100

The number of students who obtained more than or equal to 50 points is \_\_\_\_\_

A. 13

B. 18

C. 16

D. 17

**Answer: B**



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19. A picture representation of data is called

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- A. Pictograph
- B. Different graph
- C. Attractive graph
- D. None of these

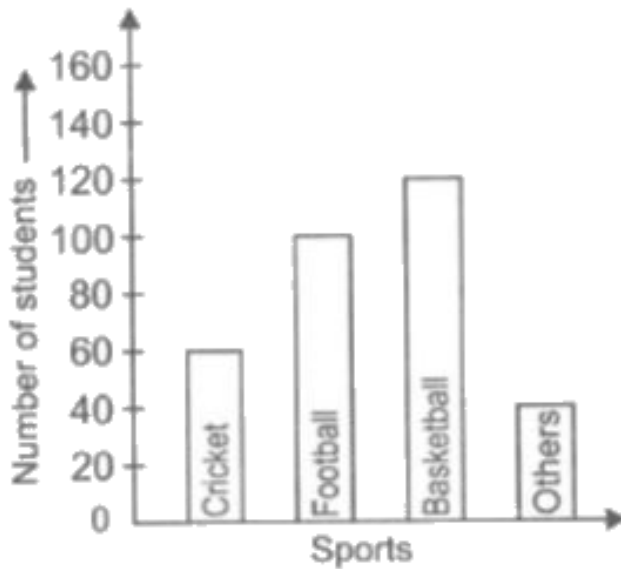
**Answer: A**



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20. Jagdish surveyed the students of his school to determine their favourite sports. The results are shown in the given bar graph.



How many more students like Basketball than Cricket ?

A. 60

B. 120

C. 20

D. 40

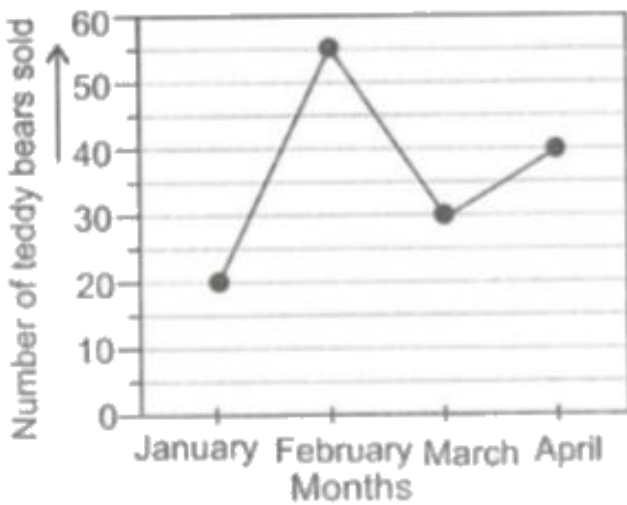
**Answer: A**



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## **Achievers Section Hots**

1. The line graph shows the number of teddy bears Latika sold from January to April.



If she earned Rs 484 for every teddy bear sold, then how much more did she earn in April than in March ?

- A. Rs 1480
- B. Rs 5405
- C. Rs 4840

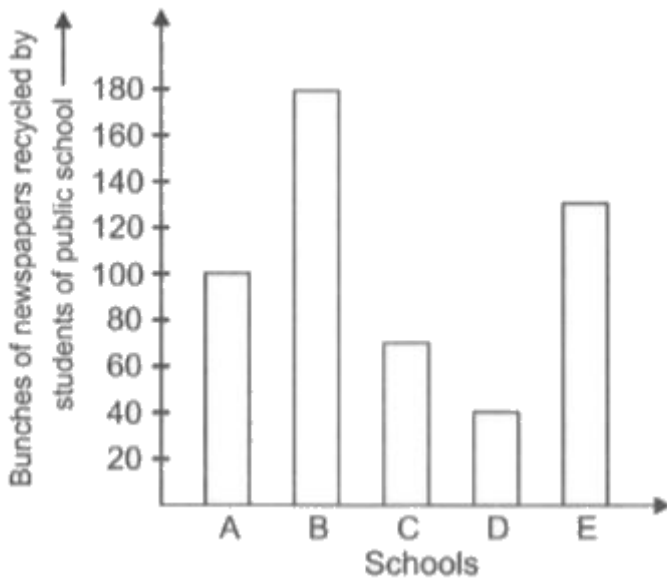
D. Rs 484

**Answer: C**



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2. Study the bar graph and state whether the given statements is true or false.



(P) C recycled more newspapers than D.

(Q) B recycled 80 bunches of newspapers more than A.

(R) Five hundred bunches of newspapers were recycled in all.

(S) The ascending order of the schools

according to the number of newspapers recycled by them is D, C, A, B, E.

A. 

<i>P</i>	<i>Q</i>	<i>R</i>	<i>S</i>
True	True	False	False

B. 

<i>P</i>	<i>Q</i>	<i>R</i>	<i>S</i>
True	True	False	True

C. 

<i>P</i>	<i>Q</i>	<i>R</i>	<i>S</i>
False	True	False	True

D. 

<i>P</i>	<i>Q</i>	<i>R</i>	<i>S</i>
False	False	True	True






**Answer: A**



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3. Study the pictograph and find the value of

$$\frac{(P - Q + R)}{98} \times S.$$

Name	Number of stuffed toy animals
Jassi	
Jai	
Javed	
Joy	
Each 	= 98 stuffed toy animals

(i) The number of stuffed toy animals Jassi and

Joy both have is \_\_\_P

(ii) Javed has \_\_\_Q more stuffed toy animals

than Jassi.

(iii) The total number of stuffed toy animals owned by all the students is \_\_\_(R).

(iv) The number of stuffed toy animals Joy has less than Javed is \_\_\_S

A. 784

B. 796

C. 854

D. None of these

**Answer: A**





4. Jenny made the frequency table to show the number of times each vowel was used in the first sentence of several books she had read. Which of the following lists shows the vowels in order of the most used to the least used ?

Vowels in sentence

Vowels	A	E	I	O	U
Tally marks					

A. U, I, E, O, A

B. E, I, A, O, U

C. A, E, O, I, U

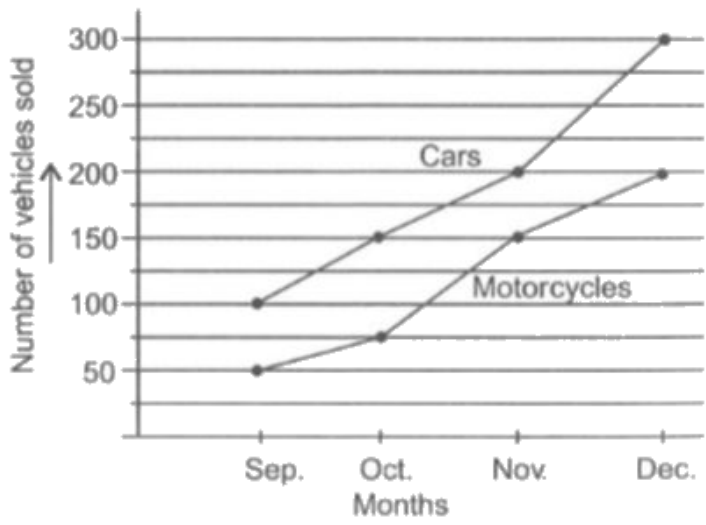
D. A, E, I, O, U

**Answer: C**



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5. The given line graph shows the number of cars and motorcycles sold from September to December.



How many more cars than motorcycles did sell in October ?

- A. 120
- B. 100
- C. 75
- D. 85

**Answer: C**



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