

STATE OLYMPIAD COMBINED TEST
MODEL QUESTION- Mathematics

F.M. - 40

CLASS I

1. Choose the correct alternatives :

1x14=14

i] Fill in the blanks : 14,15, , 17

a] 13 b] 18 c] 15 d] 14

Answer the following questions :

2x7=14

i] $14 \times 31 = \dots\dots\dots$ ii] $91 \div 3 = \dots\dots\dots$

Answer the following questions :

3x4=12

i] You had 40 chocolates. You had distributed equally among yourselves. If everyone got 5 chocolates, then how many children were there except you?

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CLASS -II

1. Choose the correct option from the given alternatives :

1x14=14

i] Which is the smallest number among the following numbers?

a] 11031 b] 8985 c] 6983 d] 21021

ii] Complete the series :

January,, March, May, July, _____

a] January b] August c] September d] December

Answer the following questions :

2x7=14

i] $7.3 \times 5.4 = \dots\dots\dots$ ii] $18.04 + 19.3 + 20.1 = \dots\dots\dots$

Answer the following questions :

3x4=12

i] Blue colour in 0.4 parts of your house, white in 0.3 parts, yellow in 0.5 parts, black in 0.123 parts. The rest is red in colour. How much parts have been painted red?

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CLASS III

1. Choose the correct option from the given alternatives :

1x14=14

i] How many meaningful words can be formed with H,C, T, A(using one letter one time)

a] 1 b] 2 c] 3 d] more than 3 e] None of them

2. Answer the following questions :

2x7=14

i). What is the difference between face value and place value of 7 in 745?

ii). Arrange the following numbers in descending order : 7045, 7504, 7450, 7405

3. Answer the following questions :

3x4=12

i) . $7989 + 9927 + 6358 = \dots\dots\dots$?

ii). Today you are 8 years 3 months and 2 days old. Then what is your date of birth?

CLASS IV

1. Choose the correct option from the given alternatives :

1x14=14

i] If $a=1$, $b=3$, $c=5$ and $abc=1+3+5$ so on..... then what is the value of "going"?

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a] 85 b] 65 c] 96 d] 94 e] 99

2. Answer the following questions :

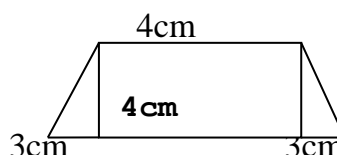
2x7=14

i] The mean height of 11 students of your class is 150 cm. Later, it was seen that the height of Ram is noted as 154 instead of 143 cm. Then, what is the actual mean of the students?

3.. Answer the following questions :

i) . Express $10\frac{7}{45}$ in decimal.

ii) . Find the perimeter of the given figure.



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

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CLASS V

2. Choose the correct option from the given alternatives : 1x14=14
 i] Angles of a triangle are $90^\circ, 45^\circ$ and 45° respectively. Which type of triangle is this?
 a] Equilateral b] Scalene c] Obtuse d] right angled isosceles triangle
 ii] In a series of 48 students, Rohan is sitting at 26th place from the right and Sohan is at 12th place from the left. How many students are there between them?
 a] 11 b] 10 c] 12 d] 15 e] None of them
3. Answer the following questions : 2x7=14
 i] $63958 - 6958 = \dots\dots\dots$
 ii] What is the sum of largest and smallest numbers formed by the digits 3, 9, 5, 8 and 2?
3. Answer the following questions : 3x4=12
 i] $12656.25 - 156.25 = \dots\dots\dots$

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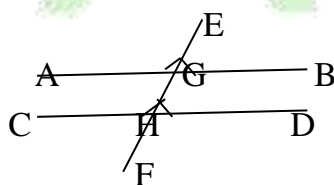
CLASS VI

1. Choose the correct option from the given alternatives : 1x14=14
 i] Which among the following diagram will show the best relation among travelers' bus & train?
 a]  b]  c]  d] 
2. Answer the following questions: 2x7=14
 i] Ram babu lends some home loan. He paid Rs. 2000 more than $\frac{1}{3}$ part of his lend. But the remaining lend is Rs. 21000 more than the paid amount. Then, how much did he borrow at first?
3. Answer the following questions : 3x4=12
 i] The L.C.M & H.C.F of two fraction are respectively $\frac{12}{7}$ and $\frac{1}{14}$ What is the value of multiplication of the fractions?
 ii] Tinni sells a pen at Rs. 10/-. Hence, she profits Rs. 25%. What is the real cost of the pen?

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CLASS VII

1. Choose the correct option from the given alternatives : 1x14=14
 i] Indicating a girl Mitali said, "The father of her son is the only son-in-law of my mother."
 What is the relation between the girl and Mitali?
 a] Sister b] Mother c] Cousin d] Herself e] None of them
2. Answer the following questions : 2x7=14
 i] If $a+b = 7$ and $a = b+3$, then $ab = ?$
 ii] The sides of a triangle are 3 cm, 4cm, and 5 cm respectively. Which types of triangle is this?
3. Answer the question : 3x4= 12



- i] If $AB \parallel CD$, EF transverse, find the values of \underline{x} , \underline{y} and \underline{z} from the above figure.

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CLASS VIII

1. Choose the correct option from the given alternatives :

1x14=14

i] Shyam travels 7 km towards north. Then he turns to his right at 90° and travels 3 km. Again he turns again his right 90° and travels 7 km straight. Now identify his direction in respect to his starting point.

- a] East b] West c] North d] South

2. Answer the following questions :

2x7=14

i] If $a^3 + b^3 + c^3 = 3abc$, then $a+b+c = ?$ [a #b # c]

i] Find the value of x and y solving the following two equations.

$$\left. \begin{array}{l} \overline{\overline{2x + \frac{3}{y} = 5}} \\ \overline{\overline{5x + \frac{2}{y} = 3}} \end{array} \right\}$$

3. Answer the following questions :

3x4=12

i] Someone commits 5% loss to sell a commodity at Rs. 190/-. What should be the price of the commodity to gain 5% profit?

ii] Aman travels to a place at a speed of 4km/hr and returns at 3km/r. What is the average speed?

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CLASS IX

1. Choose the correct option from the given alternatives :

1x14=14

Which number will be appropriate in place of (?) 999,730, 511,344, 215, ?

- a] 120 b] 126 c] 124 d] 130 e] none of them

2. Solve the problems :

2x7=14

i] Evaluate the value :

$$\frac{2^{n+4} - 4 \times 2^{n+1}}{2^{n+2} \div 2}$$

ii] Suppose 'O' is the circumcenter of ΔABC . If $\angle OBC = 40^\circ$. Then what is the value of $\angle OAC$?

3. Answer the following questions :

3x4=12

i] What is the value of $\log_2 10 - \log_8 125$

ii] If

$$\frac{\log x}{y - z} = \frac{\log y}{x - z} = \frac{\log z}{x - y}$$

then what is the value of $x^x \cdot y^y \cdot z^z$?