Oxford International School



EOY Examination 2024-25

Grade: VIII

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| Name |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

(In Block Letters)

Date: \_\_\_\_\_\_\_\_­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Subject: - MATHS Time: 3 Hours T. Marks: 100

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Index No |  |  |  |  |

Instructions

Put your Name and Date at given place.

Read the paper thoroughly and answer those questions first for which you are sure about the answers.

Every question is with different instructions. Focus & Follow it.

Don’t need to write all the questions. You can put the Question no. put it correctly.

Re check the paper/ answer script after completion.

========================== don’t write under this line ===========================

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | SEGMENT A | | | | | SEGMENT B | | | | | | | SEGMENT C | | | Total |
| Question. No | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |  |
| Total. No. | 5 | 10 | 10 | 10 | 10 | 5 | 8 | 5 | 5 | 4 | 5 | 3 | 10 | 7.5 | 2.5 | 100 |
| Marks Obtained |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Invigilated By \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Invigilator’s Sign \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Checked By \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Checker’s Sign \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Re Checked By \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Re Checker’s Sign \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**SEGMENT A**

**Q1: Multiple Choice Questions. /5**

a. To find the exact answer b. To get a close guess c. To confuse others

1. Which of the following is an example of Approximation?
2. Find the exact area of a circle. b. Saying about 100 when there are 97 items.
3. Measuring with a rule
4. An angle measures more than 900 but less than 1800 is called \_\_\_\_\_\_\_\_\_\_\_\_\_.
5. Right angle b. Acute Angle d. Right Angle
6. Which of the following is an example of an acute angle.a. 90 degrees b. 30 degrees c. 1200
7. What is the value of x when x+8=15? a. 5 b. 7 c. 4
8. Which expression represents “5 more than a number x”? a. x+5 b. 5x c. x-5
9. Which expression represents twice a number x? a. x2 b. 2x c. x/2
10. What is the middle number in the set 3,6,8,9,11? A. 3 b. 8 c. 11
11. If you have 5 red marbles, 3 blue marbles, and 2 green marbles, what is the mode color?

a. red b. Blue c. Green

1. If you toss a fair coin 10 times, how many times would you expect to get heads?

a. 5 times b. 6 times c. 7 times

**Q2: Solve the given questions. /10**

1. What is the result of 38 + 75=
2. Subtract 17 from 45
3. Multiply 12 by 6
4. Divide 96 by 3
5. Add the following numbers: 28, 49, and 18.
6. Multiply 42 by 4 and then subtract 11.
7. Add 45 to 4 times 12.
8. What is an obtuse angle?
9. Divide 180 by 9 and then add 25.
10. Divide 105 by 5

**Q3: Fill in each box with ‘<’ , ‘>’ , ‘≤’ or ‘≥’ /10**

|  |  |
| --- | --- |
| If x>y, then 5x\_\_\_5y | Ifx<50 and 50<y, then x\_\_\_y |
| If 18>3 and 3>x then 18\_\_x | If x<y, then x/15\_\_\_\_ y/15 |
| If x>y, then 4x\_\_\_4y | If x≤y, then x/10\_\_\_\_y/10 |
| If x<y, then x/20\_\_\_\_ y/20 | If 15>5 and 5>x then 15\_\_x |
| If x>y, then 30x\_\_\_35y | Ifx<25 and 25<y, then x\_\_\_y |

**Q4: Find a formula for each of the following. /10**

|  |  |
| --- | --- |
| Product p of three numbers x,y, and z |  |
| Sum S of the square of p and the cube of q |  |
| Write the expression that matches the statement 5 more than C. |  |
| Average A of four numbers m,n,p and q. |  |
| Solve the equation e-12=9 |  |
| Time T, in minutes, for a train journey of a hours journey of a hours b minutes. |  |
| Write the expression that matches the statement subtract r from 15 |  |
| Solve the equation h/3=12 |  |
| The inverse of a number h. |  |
| The sum of a number p and its cube |  |

**Q5: Sort numbers on a venn diagram. /10**

|  |  |
| --- | --- |
| **How many numbers are multiples of 3?** |  |
| **How many numbers are even?** |  |
| **How many numbers are not multiples of 3 and are not even?** |  |
| **How many numbers are multiples of 3 but are not even?** |  |
| **How many numbers are both even and multiples of 3.** |  |

**Multiples of 3**

**Even numbers**

|  |  |  |  |
| --- | --- | --- | --- |
| **9** | **31** | **11** | **32** |
| **6** | **36** | **18** | **38** |
| **33** | **16** | **28** | **27** |
| **45** | **20** | **3** | **21** |

**Both**

**SEGMENT B**

**Q6: State the number of significant figures in each of the following. /5**

1. 3806 b. 0.000214 c. 7154 d. 0000013505 e. 0.14521

**Q7: Solve each of the following equations. (Any 8) /8**

1. 2(x + 3) =8 b. 5(x-7) = -15 c. 3(y+2) = 2(y+4) d. 2(x+7) e. 3x-7=4-8x
2. 4x-10=5x+7 g. 30+7y=-2y-6 h. 4x=28 i. 3x-4=11

**Q8: Find the complementary angle of each of the following. /5**

1. 18 b. 240 c. 570 d. 680 e. 820

**Q9: Find the Supplementary angle of each of the following. /5**

1. 360 b. 1020 c. 1230 d. 120 e. 540

**Q10: Solve each of the following equations. /4**

1. x = 7 b. x = -6

**Q11: Solve each of the following inequalities. /5**

1. 2x<12 b. 5y>40 c. 9y>-20 d. 4x<28 e. 3x>24

**Q12: The table shows the number of students who play volleyball, basketball, and tennis respectively. /3**

|  |  |  |  |
| --- | --- | --- | --- |
| Sport | Volleyball | Basketball | Tennis |
| Number of students | 40 | 60 | 50 |

Complete the pictogram.

|  |
| --- |
| Volleyball |
| Basketball |
| Tennis |

Each circle represents 10 students.

1. Find the ratio of the number of students who play volleyball to the number of students who play tennis.
2. Express the number of students who play tennis as a percentage of that who play basketball.

**SEGMENT C**

**Q13: Solve the given word problems. /10**

1. There are 14 boys and 25 girls in the school badminton team. Find the ratio of.

i) the number of boys to the number of girls.

ii) the number of girls to the total number of players in the team.

1. When loaded with bricks, a lorry has a mass of 11600kg. If the mass of the bricks is three times that of the empty lorry. Find the mass of the bricks.
2. If a number is tripled it gives the same result as when 28 is added to it. Find the number.
3. Priya evaluates 218/31 using a calculator and she says that the number is 70.3. Without doing the actual calculation, use estimation to determine whether Priya’s answer is reasonable. Then use a calculator to evaluate 218/31. Is your estimated value close to the actual value.
4. A typist type 1800 words in 1 hour. Find the number of words that she can type per minute.

**Q14: Simplify each of the following ratios. /7.5**

1. 1.5kg: 350g b. 0.45 : 0.85 c. : d. : : e. 0.33 : 0.63 : 1.8

**Q15: Given that a : b : c = 75 : 120 : 132, /2.5**

1. **Simplify a : b : c ii. Find b : a iii. Find b :c**