



MATHLEGO

Online Contest

GRADE 5-6

Q.1: If a shirt is priced at Rs.40 and there is a 20% markup, what is the new selling price?

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|---|-------|
| A | Rs.44 |
| B | Rs.48 |
| C | Rs.50 |
| D | Rs.52 |



Q.2: If a car travels 160 miles in 4 hours, what is its average speed in miles per hour?

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| A | 20 mph |
| B | 30 mph |
| C | 40 mph |
| D | 50 mph |

Q.3: What is the greatest common factor (GCF) of 36 and 48?

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| A | 12 |
| B | 6 |
| C | 4 |
| D | 8 |

Q.4: The Venn diagram named after _____ who created the diagram in _____ :

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| A | Charlie Venn , 1890 |
| B | John Venn , 1880 |
| C | Charlie Venn , 1880 |
| D | John Venn , 1890 |

Q.5: Which number has exactly three factors?

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| A | 9 |
| B | 12 |
| C | 6 |
| D | 15 |



Q.6: Which of the following numbers is a multiple of both 4 and 5?

A	20
B	18
C	24
D	15

Q.7: Which of the following figures has no line of symmetry?

A	Circle
B	Square
C	Rectangle
D	Triangle

Q.8: Which of the following letters has reflective symmetry?

A	M
B	W
C	L
D	T

Q.9: Which of the following figures has both reflective and rotational symmetry?

A	Square
B	Rectangle
C	Rhombus
D	Parallelogram



Q.10: What is the perimeter of a square with sides measuring 8 units?

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| A | 16 units |
| B | 24 units |
| C | 32 units |
| D | 64 units |

Q.11: A rectangular garden has dimensions 10 meters by 6 meters. What is its perimeter?

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| A | 32 metres |
| B | 22 metres |
| C | 60 metres |
| D | 36 metres |

Q.12: What is the perimeter of a regular hexagon with sides measuring 4 units each?

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| A | 16 units |
| B | 20 units |
| C | 24 units |
| D | 28 units |

Q.13: Which of the following shapes has all sides of equal length and all angles as right angles?

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| A | cube |
| B | Cuboid |
| C | Sphere |
| D | Cylinder |



Q.14: What is the number of edges in a cube?

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| A | 8 |
| B | 12 |
| C | 6 |
| D | 4 |

Q.15: Ratios are used to compare:

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| A | Absolute quantities |
| B | Similar quantities |
| C | Dissimilar quantities |
| D | Opposite quantities |

Q.16: A ratio can be simplified to its simplest form by:

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| A | Multiplying both terms by the same number |
| B | Dividing both terms by the same number |
| C | Adding the terms together |
| D | Subtracting the terms |

Q.17: The ratio of two quantities a and b can be represented as:

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| A | $a \times b$ |
| B | $a - b$ |
| C | $a + b$ |
| D | $a \div b$ |



Q.18: The origins of factor and multiple concepts can be traced back to ancient civilizations such as:

- A** Babylonia
- B** Egypt
- C** Greece
- D** All of these

Q.19: What is the purpose of estimation in mathematics?

- A** To find the exact solution to a problem
- B** To make an educated guess or approximation
- C** To create complex mathematical models
- D** To prove theorems

Q.20: Which of the following is an example of rounding to the nearest ten?

- A** 27 to 20
- B** 78 to 70
- C** 54 to 60
- D** 91 to 90

Q.21: Estimation is particularly useful when:___

- A** Precise calculations are required
- B** The exact answer is readily available
- C** Quick approximate answers are needed
- D** The problem involves advanced algebraic concepts



Q.22: When estimating, what should you do with decimal numbers?

- A** Ignore them and round to the nearest whole number
- B** Round them to the nearest integer
- C** Always round down to the nearest whole number
- D** Use them as they are without any rounding

Q.23: Evaluate the expression: $7 + (4 \times 3)$

- A** 33
- B** 25
- C** 19
- D** 15

Q.24: Which operation should you use to find the total number of apples if you have 6 baskets, and each basket contains 4 apples?

- A** Addition
- B** Subtraction
- C** Multiplication
- D** Division

Q.25: Which of the following is the correct subtraction of fractions: $3/5 - 1/5$?

- A** $1/10$
- B** $2/10$
- C** $4/5$
- D** $2/5$



Q.26: A farmer has 56 apples, and he wants to distribute them equally among 8 baskets. How many apples will be in each basket?

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| A | 6 |
| B | 7 |
| C | 8 |
| D | 9 |

Q.27: A bar graph is used to represent:

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| A | Continuous data |
| B | Discrete data |
| C | Categorical data |
| D | Numerical data |

Q.28: The range of a data set is:

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| A | The difference between the largest and smallest values |
| B | The sum of all values in the data set |
| C | The value that appears most frequently |
| D | The average of all values in the data set |

Q.29: What is the median of the following data set: 12, 15, 8, 10, 18?

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| A | 12 |
| B | 10 |
| C | 15 |
| D | 8 |



Q.30: John was ranked fifth from the top and sixteenth from the bottom after a test. How many students were there in his class?

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| A | 19 |
| B | 20 |
| C | 21 |
| D | 22 |



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