



MATHLEGO

Online Contest

GRADE 7-8

Q.1: The marked price of an article is Rs. 80, if it is sold at Rs. 72, What is the discount percentage?

A	5%
B	15%
C	10%
D	20%



Q.2: NASA's Mars Rover Perseverance traveled 293 million miles to reach Mars. If it took 203 days to get there, what was the average speed of the rover in miles per day?

- | | |
|----------|-----------------|
| A | 1,443 miles/day |
| B | 1,447 miles/day |
| C | 1,458 miles/day |
| D | 1,462 miles/day |

Q.3: Histogram is similar to _____ graph?

- | | |
|----------|------------|
| A | Pie graph |
| B | Line graph |
| C | Bar graph |
| D | Pie chart |

Q.4: Find the value of the x if $\frac{4}{5}x + 7y = 101$ and $y=5$.

- | | |
|----------|---------------|
| A | 80.5 |
| B | 81.5 |
| C | 82.5 |
| D | None of these |

Q.5: Angles can be drawn _____ direction?

- | | |
|----------|-------------------|
| A | Clockwise |
| B | Counter clockwise |
| C | middle |
| D | A and B |



Q.6: Rubina purchased a cycle for Rs. 800 and sold it for Rs. 1040. Find his gain percent?

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|----------|-----|
| A | 20% |
| B | 30% |
| C | 32% |
| D | 31% |

Q.7: Which number is equivalent to $\frac{3^4}{3^2}$?

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|----------|-----|
| A | 3 |
| B | 9 |
| C | 81 |
| D | 729 |

Q.8: The graph of a linear equation is always a ____?

- | | |
|----------|---------------|
| A | Parabola |
| B | Circle |
| C | Straight line |
| D | Curved line |

Q.9: A bar graph is used to represent?

- | | |
|----------|------------------|
| A | Continuous data |
| B | Area of shapes |
| C | Discrete data |
| D | Lines and angles |



Q.10: Which mathematical term describes a straight line that goes on forever in both directions?

- A** Perpendicular line
- B** Parallel line
- C** Line segment
- D** Ray

Q.11: Which of the following sets is a subset of set {apple, banana, orange}?

- A** {banana, orange}
- B** {kiwi, lemon}
- C** {apple, lemon}
- D** {grape, orange}

Q.12: In which century did the Indian mathematician Brahmagupta introduce the rules for performing arithmetic with positive and negative numbers?

- A** 4th century
- B** 7th century
- C** 10th century
- D** 13th century

Q.13: Find the quotient of $5.2 \div 2$?

- A** 2.6
- B** 2.5
- C** 2.0
- D** 1.8



Q.14: Which of the following is the correct representation of the complement of set $A = \{x, y, z\}$?

- | | |
|----------|--------------------------|
| A | $\{x, y, z\}$ |
| B | $\{x, y, z, U\}$ |
| C | $\{x, y, z, \emptyset\}$ |
| D | $\{U\}$ |

Q.15: Which ancient civilization made significant advancements in mathematics and developed the concept of zero?

- | | |
|----------|-----------------------|
| A | Egyptian civilization |
| B | Roman civilization |
| C | Indian civilization |
| D | None of these |

Q.16: Convert 0.75 to a fraction in simplest form?

- | | |
|----------|-------|
| A | $1/3$ |
| B | $3/4$ |
| C | $4/5$ |
| D | $5/6$ |

Q.17: Which of the following is the empty set (also known as the null set)?

- | | |
|----------|-----------------|
| A | $\{0\}$ |
| B | $\{\emptyset\}$ |
| C | $\{1\}$ |
| D | $\{\}$ |



Q.18: If a rocket travels 150 kilometers in 3 minutes, what is its speed in kilometers per hour?

- | | |
|----------|------------|
| A | 50 km/h |
| B | 250 km/h |
| C | 300 km/h |
| D | 3,000 km/h |

Q.19: If an object has a mass of 50 kilograms on Earth, what would its mass be on the Moon? (The acceleration due to gravity on the Moon is about 1/6th that of Earth.)?

- | | |
|----------|---------|
| A | 300 kg |
| B | 50 kg |
| C | 8.33 kg |
| D | 150 kg |

Q.20: The average distance from the earth to the sun is approximately:

- | | |
|----------|------------------------|
| A | 93 million miles |
| B | 150 million kilometers |
| C | 384,400 kilometers |
| D | 1 astronomical unit |

Q.21: What is the shape of our galaxy, the Milky Way?

- | | |
|----------|------------|
| A | Spiral |
| B | Elliptical |
| C | Irregular |
| D | Round |



Q.22: The sum of three consecutive odd numbers is 63. What is the largest of these numbers?

A	19
B	21
C	23
D	25

Q.23: What is the area of a rectangle with length 12 units and width 8 units?

A	80 square units
B	84 square units
C	96 square units
D	100 square units

Q.24: The circumference of a circle is 44π cm. What is the diameter of the circle?

A	14cm
B	22cm
C	28cm
D	44cm

Q.25: In a class of 35 students, 21 students passed the test. What percentage of students passed the test?

A	55%
B	60%
C	75%
D	80%



Q.26: What is the slope of the line passing through the points (4, 7) and (2, 1)?

- | | |
|----------|---|
| A | 2 |
| B | 3 |
| C | 4 |
| D | 5 |

Q.27: A triangle has side length of 5cm, 12cm and 13cm. Is the triangle a right triangle?

- | | |
|----------|-------------------|
| A | Yes |
| B | No |
| C | Statement's fault |
| D | Cannot determined |

Q.28: What is the median of the following data set: 4, 7, 2, 9, 5, 11, 6, 8?

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

Q.29: How many properties are there of the Addition??

- | | |
|----------|---|
| A | 4 |
| B | 5 |
| C | 6 |
| D | 7 |



Q.30: A group of students took a math test, and the scores were as follows: 78, 82, 95, 68, 90, 85, 73, 88, 94 and 79. What is the range of the scores?

- | | |
|----------|----|
| A | 27 |
| B | 26 |
| C | 25 |
| D | 24 |



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