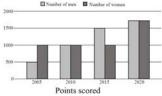
Q1. Below is the data of the number of men and women in a village for different years. Now based on this data answer the following MCQs with the correct option.

1 Mark



How many men were there in the village in 2010?

A 500

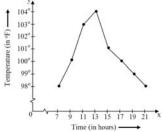
B 1500

C 1000

D 2000

Q2. Which of the following statements is true?

- A Natural numbers are commutative for subtraction.
- **B** Whole numbers are commutative for subtraction.
- **C** Integers are commutative for subtraction.
- **D** Rational numbers are not commutative for subtraction.
- Q3. Observe the following temperature time graph and answer the related questions:



103°F temperature is at time.

- A 11 hours
- **B** 13 hours
- C 15 hours
- D 21 hours

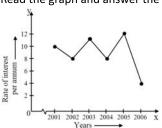
Q4. Which of the following points lies on y-axis?

- **A** (-4, 0)
- **B** (4,0)

C (0, -4)

D (-4, 4)

Q5. Read the graph and answer the related questions:



Rise in interest from 2004 to 2005 was.

A 2%

B 4%

C 6%

D 8%

Q6. If a and b are two rational numbers, then:

1 Mark

A
$$\frac{a+b}{2} < a$$

B
$$\frac{a+b}{2}$$
 <

$$c \frac{a+b}{2} = a$$

$$D \frac{a+b}{2} >$$

1 Mark

Assertion (A): $-a \times b = b \times a$ is called commutative law for multiplication

Reason (R): Rational numbers are commutative under addition and multiplication

 $\boldsymbol{\mathsf{A}}\$ Both A and R are true and R is the correct explanation of

B Both A and R are true but R is not the correct explanation

Δ

OI A

C A is true but R is false

D A is false but R is true

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Q8. Directions: In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. Read both the statements carefully and choose the correct alternative from the following:

Assertion (A): Rational numbers are commutative for multiplication

Reason (R): Rational numbers are commutative under addition and multiplication

- A Both A and R are true and R is the correct explanation of
- **B** Both A and R are true but R is not the correct explanation

C A is true but R is false

- D A is false but R is true
- A _____ is the representation of data by using graphical symbols such as lines, bars, pie slices, histogram etc. Q9.
- 1 Mark

- A flow chart
- **B** diagram
- C equation

of A

D graph

Which is a two dimensional graph? Q10.

1 Mark

A pie

B bar

- C histogram
- **D** frequency curve

Tick (\checkmark) the correct answer the following: Q11.

The product of two rational numbers is $\frac{-28}{81}$. If one of the numbers is $\frac{14}{27}$ then the other one is:

- Q12. Find the product of the $\frac{4}{5}$ and the reciprocal of $\frac{5}{8}$.

Mark (\checkmark) against the correct answer of the following: Q13.

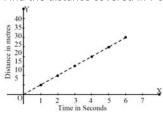
Reciprocal of $\frac{-7}{9}$ is:

A $\frac{9}{7}$

 $C^{\frac{7}{9}}$

D None of these.

Q14. Find the distance covered in 7 seconds.

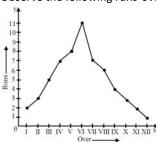


A 30m

B 25m

C 35m

- **D** 20m
- Q15. Observe the following runs-over graph and answer the related questions:



What is the sum of runs scored in I and XII overs?

A 1

B 2

C 3

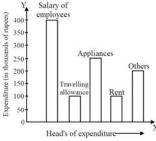
What should be subtracted from $-\frac{5}{4}$ to get -1? Q16.

A $-\frac{1}{4}$

 $\mathbf{C} 1$

Q17. Observe the following bar graph and answer the related questions: 1 Mark

1 Mark



On which head/ heads, is the expenditure minimum?

A Travelling allowance/ rent.

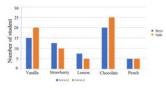
B Appliances.

C Salary of employees.

- D Others.
- **Q18.** Refer the given graph and answer the following question:

1 Mark

A survey was conducted in a class to see how many girls and boys like a particular ice cream flavour. How many more girls like the chocolate flavour than the boys?



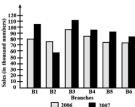
A 0

B 15

C 10

- **D** 5
- Q19. The bar-graph provided gives the sales of books (in thousands) from six branches of a publishing company during two consecutive years 2006 and 2007. Answer the question based on this bar-graph.

What is the ratio of the total sales of branch B₂ for both years to the total sales of branch B₄ for both years?



A 2:3

B 3:5

C 13:18

D 7:9

- **Q20.** Find the additive inverse of $\frac{11}{7}$?
 - Δ <u>11</u>

 $B - \frac{11}{7}$

c <u>7</u>

D $-\frac{7}{11}$

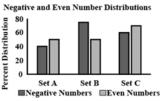
- **Q21.** Which of the following is the reciprocal of a?
 - Аа

B a

 $C^{\frac{1}{a}}$

 $D - \frac{1}{2}$

Q22. How many sets had more even than negative numbers?



A 0

B 1

C 2

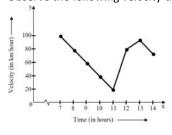
D 3

Q23. Zero (0) is:

- **B** The identity for subtraction of rational numbers.
- A The identity for addition of rational numbers.C The identity for multiplication of rational numbers.
- **D** The identity for division of rational numbers.
- **Q24.** Observe the following velocity-time graph and answer the related questions:

1 Mark

1 Mark



B Y-axis

Q25. The point (0, 0) lies at:

A X-axis

D None of the above.

Q26. The multiplicative identity of rational numbers is:

B 1

C 2

C Origin

D -1

Q27. Observe the following circle-graph and answer the related questions: 1 Mark

1 Mark

1 Mark



On which head is the expenditure maximum?

A Food

- **B** Clothes
- C House rent
- **D** Education

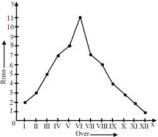
Q28. Rectangle bars touching each other in which graph _

- A histogram
- **B** bar

C pie

D line

Q29. Observe the following runs-over graph and answer the related questions:



3 runs are scored in which overs?

- A II and X
- B Land V
- C VII and VIII
- D X and XII

Q30. (O, Y) are the co-ordinates of a point lying on which of the following?

- A Origin
- **B** Y-axis

C X-axis

D None of these.

Q31. Directions: In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. Read both the statements carefully and choose the correct alternative from the following:

Assertion (A): -a + b = b + a is called commutative law of addition

Reason (R): Rational numbers are commutative under addition and multiplication

- A Both A and R are true and R is the correct explanation of
- **B** Both A and R are true but R is not the correct explanation
- Α
- of A

C A is true but R is false

D A is false but R is true

Q32. Directions: In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. Read both the statements carefully and choose the correct alternative from the following:

1 Mark

Assertion (A): Natural numbers are associative for division

Reason (R): The associative property states that the sum or the product of three or more numbers does not change if they are grouped in a different way.

- A Both A and R are true and R is the correct explanation of
- **B** Both A and R are true but R is not the correct explanation of A

C A is true but R is false

D A is false but R is true

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- Tick (\checkmark) the correct answer the following: Q33.
 - What should be added to $\frac{-5}{7}$ to get $\frac{-2}{3}$?

- Q34. Directions: In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. Read both the statements carefully and choose the correct alternative from the following:

1 Mark

1 Mark

1 Mark

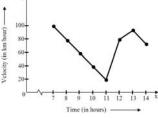
Assertion (A): Natural numbers are associative for addition

Reason (R): The associative property states that the sum or the product of three or more numbers does not change if they are grouped in a different way.

- A Both A and R are true and R is the correct explanation of
- **B** Both A and R are true but R is not the correct explanation

C A is true but R is false

- D A is false but R is true
- Q35. Observe the following velocity-time graph and answer the related questions:



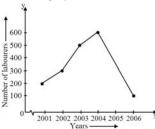
At what times are the velocities equal?

- A 8 and 12
- **B** 9 and 11
- C 7 and 12
- **D** 11 and 13

- Q36. In a bar chart, the _____ are represented by the heights of the bars.
- **B** weights
- **C** frequencies
- **D** constant

- Which of the following is the product of $\left(\frac{-7}{8}\right)$ and $\frac{4}{21}$? Q37.

Q38. Read the graph and answer the related questions:



Find the rise in the number of labourers from 2001 to 2004.

A 200

B 300

C 400

- **D** 500
- Q39. Use the distributivity of multiplication of rational numbers over their addition to simplify:

$$\frac{3}{5} \times \left(\frac{35}{24} + \frac{10}{1}\right)$$

 $\left(\frac{-9}{4} \times \frac{5}{3}\right) + \left(\frac{13}{2} \times \frac{5}{6}\right)$ Q40.

2 Marks

Simplify the following and write as a rational number of the form $\frac{p}{q}$: Q41. $\frac{3}{4} + \frac{5}{6} + \frac{-7}{8}$

2 Marks

By what number should we multiply $\frac{-1}{6}$ so that the product may be $\frac{-23}{9}$? Q42.

2 Marks

The cost of $3\frac{1}{2}$ metres of cloth is $Rs.\ 166\frac{1}{4}$. What is the cost of one metre of cloth? Q43.

2 Marks

- Q44.
- Verify the following: $\frac{-5}{8} + \frac{-9}{13} = \frac{-9}{13} + \frac{-5}{8}$

2 Marks

3 Marks

3 Marks

3 Marks

Q46. $\left(\frac{13}{5} \times \frac{8}{3}\right) - \left(\frac{-5}{2} \times \frac{11}{3}\right)$

Q45.

Q47.

Verify the property $x \times (y + z) = x \times y + x \times z$ of rational numbers by taking.

Represent the following numbers on the number line.

 $x = \frac{-1}{2}, y = \frac{2}{3}, z = \frac{3}{4}$

Q48. Rita had Rs. 300. She spent $\frac{1}{3}$ of her money on notebooks and $\frac{1}{4}$ of the remainder on stationery items. How much money is **3 Marks** left with her?

Q49. Simplify:

 $\left(\frac{3}{2} \times \frac{1}{6}\right) + \left(\frac{5}{3} \times \frac{7}{2}\right) - \left(\frac{13}{8} \times \frac{4}{3}\right)$

- Q50. Locate the points A (1, 2), B (4, 2) and C (1, 4) on a graph sheet taking suitable axes. Write the coordinates of the fourth point D in order to complete the rectangle ABCD.
- **Q51.** Draw the temperature-time graph in each of the following cases:

1.

Time (in hours):	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00
Speed (in km/hr):	30	45	60	50	70	50	40	45

2.

Time (in hours):	8:00	10:00	12:00	14:00	16:00	18:00	20:00
Temperature (°F) in:	100	101	104	103	99	98	100