



Class: IX

Time Allowed: 20 minutes

Q1:

MODEL PAPER 2026

SUBJECT: GENERAL MATHEMATICS

SECTION "A" (MULTIPLE CHOICE QUESTIONS)

Marks: 15

**Note:** Attempt **ALL** the MCQs from Section "A". Each MCQ carries **ONE** mark.

- If two partners invest Rs. 30,000 and Rs. 20,000 respectively, and the profit is Rs. 10,000, how much will the first partner get?
  - Rs. 5,000
  - C. Rs. 7,000
  - Rs. 6,000
  - Rs. 8,000
- What is a demand draft?
  - A written order to pay a specific amount
  - A written promise to pay a specific amount
  - A written request to receive a specific amount
  - A written instruction to transfer funds
- A recipe for making cookies requires a ratio of 2 cups of flour to 1 cup of sugar. If you want to make a batch of cookies that requires 6 cups of flour, how many cups of sugar do you need?
  - 2 cups.
  - 3 cups.
  - 4 cups.
  - 6 cups.
- A trader buys a product for Rs. 1,200 and sells it for Rs. 1,500. What is the profit percentage?
  - 20%.
  - 22%.
  - 25%.
  - 30%.
- Three friends, A, B, and C, start a business with investments of Rs. 20,000, Rs. 30,000, and Rs. 50,000 respectively. If they make a profit of Rs. 20,000, how much will C get if the profit is distributed according to their investments?
  - Rs. 4,000.
  - Rs. 6,000.
  - Rs. 8,000.
  - Rs. 10,000.
- What type of bank account is suitable for frequent transactions and daily expenses?
  - Current account.
  - Savings account.
  - Fixed deposit account.
  - Recurring deposit account.
- What is the difference between a Debit card and a Credit card?
  - Debit card allows borrowing; a credit card doesn't.
  - Debit card has no fees; credit card has fees
  - Debit card uses your own money; credit card uses borrowed money.
  - Debit card is for online transactions; credit card is for offline transactions.
- If the principal amount is Rs. 5,000 and the profit/markup is Rs. 500, what is the rate of profit/markup?
  - 5%.
  - 10%.
  - 15%.
  - 20%.
- What is the purpose of sales tax?
  - To tax individual income.
  - To tax property ownership.
  - To tax imports and exports.
  - To Tax goods and services sold.
- A person owns a property worth Rs. 2,000,000 and pays 1% property tax. How much tax will he pay?
  - Rs. 15,000.
  - Rs. 20,000.
  - Rs. 25,000.
  - Rs. 30,000.
- What is the simplified form of  $\sqrt{16x^2}$  ?
  - 2x.
  - 4x.
  - 8x.
  - 16x.
- What is the Law of Logarithm for  $\log \frac{a}{b}$  ?
  - $\log(a) - \log(b)$ .
  - $\log(a) + \log(b)$ .
  - $\log(a) \times \log(b)$ .
  - $\log(a) / \log(b)$ .
- What is the scientific notation of 456,000?
  - $4.56 \times 10^4$
  - $456 \times 10^3$
  - $45.6 \times 10^4$
  - $4.56 \times 10^5$
- What is the main purpose of a grouped frequency table?
  - To display individual data points
  - To summarize large datasets
  - To calculate mean and median
  - To create histograms
- What is weighted mean used for?
  - To calculate average of equal weights
  - To calculate average of unequal weights
  - To calculate median
  - To calculate mode

**END OF SECTION "A"**



Class: IX

MODEL PAPER 2026

Time: 2 hours 40 minutes SUBJECT: GENERAL MATHEMATICS (SECTION "B" &amp; SECTION "C")

Total Marks 60

SECTION "B" (SHORT ANSWER QUESTIONS)

30 Marks

**Note:** Attempt any **SIX** questions from Section "B". Each question carries **FIVE** marks.

Q.2 Identify the original amount if a product is priced at Rs 1 200 after a 20 % discount.

Q.3 Identify the missing term in the ratio 4 : ? if it is equivalent to 2 : 7.

Q.4 If 3 kg of sugar costs Rs. 120, how much will 7 kg of sugar cost?

Q.5 A shopkeeper sells a chair for Rs. 900 and makes a profit of 20%. Find the cost price of the chair?

Q.6 Explain the concept of negotiable instruments in the banking system.

Q.7 What is the difference between direct and indirect taxes? Provide examples of each.

Q.8 Find the sum of the first 10 terms of the arithmetic sequence: 3, 6, 9, 12, ...

Q.9 Insert 2 geometric means between 4 and 108.

Q.10 If  $A = \{a, b, c\}$ ,  $Q = \{x, y, z\}$  and  $R = \{p, q, r, s\}$  then find:

(i) a function  $f$  from  $P$  into  $Q$ .

(ii) a function  $h$  from  $P$  to  $R$  which is injective.

Q.11 The graph shows miles vs kilometers; if 5 miles  $\approx$  8 km, read the kilometer value for 12 miles.

### SECTION "C" (DETAILED ANSWER QUESTIONS)

30 Marks

**Note:** Attempt any **THREE** questions from Section "C". Each question carries **TEN** marks.

Q.12 The number of books read by 28 pupils in a month:

1, 2, 2, 3, 3, 3, 4, 4, 4, 4, 5, 5, 5, 6, 6, 6, 7, 7, 7, 7, 8, 8, 8, 9, 9, 9, 10, 10.

Form a grouped frequency table with class width 2 starting at 1-2, 3-4, 5-6, 7-8, 9-10.

Q.13 A bank offers a loan of Rs. 200,000 at an interest rate of 15% per annum for 5 years. Calculate the markup (interest) on the loan.

Q.14 Reduce the following rational expression to its lowest form:

$$\frac{(x^2-x)(x^2-5x+6)}{2x(x^2-3x+2)}$$

Q.15 If  $A = \{1, 2, 3, 4, 6, 12\}$  and  $B = \{4, 6, 8, 9, 10, 12\}$ , then verify the commutative property of union and intersection.

Q.16 Calculate the range, variance and standard deviation for the ungrouped marks: 48, 56, 63, 71, 79.

**END OF PAPER**