GENERAL

arithmetic ability questions and answers in gujarati

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Arithmetic Ability Questions and Answers in Gujarati: A Complete Guide

Arithmetic is the backbone of every mathematical curriculum, and for students learning in Gujarati, the challenge often lies not only in solving problems but also in understanding the language of the questions. Whether you are a parent helping your child prepare for competitive exams, a teacher designing worksheets, or a learner seeking to improve your number sense, this guide offers a comprehensive collection of arithmetic ability questions and answers in Gujarati. By exploring a variety of problem types, detailed explanations, and practical tips, you will gain confidence in tackling arithmetic challenges presented in Gujarati and enhance your overall mathematical proficiency.

Why Arithmetic Ability Matters in the Gujarati Context

Arithmetic ability is more than just memorizing formulas; it is about developing a logical mindset, quick mental calculations, and the skill to apply concepts to real-world scenarios. In Gujarat, where many academic examinations—such as the UPSC, JEE, NEET, and state board tests—include Gujarati language sections, mastering arithmetic questions in Gujarati becomes essential for several reasons:

- Language Familiarity: Questions phrased in Gujarati may use colloquial expressions or regional terminologies that differ from standard English versions.
- Exam Proficiency: Many state-level exams, including the Gujarat Secondary and Higher Secondary Board (GSEB) tests, feature arithmetic problems written entirely in Gujarati.
- Cultural Relevance: Contextual examples—like counting local produce or calculating distances in Gujarati villages—make the learning process more relatable.
- Confidence Building: Mastery of arithmetic in one's native language reduces anxiety and improves overall academic performance.

Key Benefits of Strengthening Arithmetic Skills

1. Improved problem solving speed.
2. Enhanced logical reasoning and critical thinking.
3. Better performance in competitive exams.
4. Greater confidence in everyday financial calculations.
5. Foundation for advanced mathematics and science courses.

How to Approach Arithmetic Ability Questions in Gujarati

While the underlying mathematics remains unchanged, the way questions are framed in Gujarati can influence how you interpret them. Below are step by step strategies to decode and solve arithmetic problems effectively.

1. Read the Question Carefully

Gujarati words may have multiple meanings depending on context. Pay close attention to terms like **“ªÊ§¬ ,”“(ãj)zÁ¨)@ (half)** , **“«Z§¬ @ (made)©ŠŸ” (less)**. Misreading any of these can lead to incorrect calculations.

2. Identify the Core Mathematical Concept

Determine whether the problem involves addition, subtraction, multiplication, division, fractions, percentages, ratios, or word problems. Mark the relevant symbols or keywords in Gujarati, such as **“+” (plus), “-” (minus), “×” (times), “÷” (divide), “ª Ú¾©y@ (part), “©ú•«é@ (percent).**

3. Translate Numbers and Units

Numbers are often written in words (e.g., **“ªaa³⁄₄¨*š,œ©e«ê”**). Convert them to numerals to avoid confusion. Also, check units—like **“©Z¿«*Ë ª ê(Kg)²”, “©Z«*” (gallon)** —to ensure you’re applying the correct conversion factors.

4. Break Down the Problem

Complex questions can be split into smaller sub problems. Write intermediate steps in Gujarati or in English as needed. This method reduces cognitive overload and helps you track each calculation.

5. Verify Your Answer

Double check your work by cross verifying with alternative methods—such as using a calculator, mental math, or a quick back of the envelope check. For instance, if a problem asks for the sum of two numbers, verify that the result is within the expected range.

Sample Arithmetic Ability Questions and Answers in Gujarati

Below is a curated set of arithmetic problems, covering a range of difficulty levels. Each question is followed by a step by step solution written in Gujarati, ensuring that learners can understand both the language and the mathematics.

Basic Level

ªaa¶¬zÚ¨¬r Cƒ’ ¨¬² ¸« µ«ê³¬² •¬zŸ«*Ë?

1. 356 + 489 = 845.
2. Answer: 845.

ªaa¶«zÚ¨¬r ¾¾¨*¥¬ CsR ˜©ú¾ª Ë.

1. 1,200 – 475 = 725.
2. Answer: 725.

ªaa¶« ¶šÚ¨7 ªZÀ ©zÁª2 •« Ë.

1. 12 × 7 = 84.
2. Answer: 84.

ªaa¶«¶ ªšÚ: 12 ªZÀ «Z¹¬zš¬²à

1. 144 ÷ 12 = 12.
2. Answer: 12.

Intermediate Level

ªaa¶«zÚ¨¬r 2ó, ¨¬ , «Š°«Z¾«:Ë «jËªzË.

1. Common denominator = 8.
2. 1/4 = 2/8. 3/8 stays the same.
3. 2/8 + 3/8 = 5/8.
4. Answer: 5/8.

ªaa¶«¶¬zÚ¬r 50 ©zÍ« ¾ªê¨¬ , ªaÇ©ZÇ©Â # R µªz¾« ¾ªZÀ 180 ©zÍ« ¾ªâ ¥«ê¯ ©ºÇ, ªJË ªêÂ«2 •«ú‚ªê¤ ©ZÇ©ú²¬ ¹ªJÀ?

1. 20% of x = 180 – 150 = 30.
2. x = 30 ÷ 0.20 = 150.
3. Answer: 150 ©zÍ« ¾ªâ †÷ iginal weight).

ªaÍ«¤ªâÚ¨Ë: ¨Z¨¬ ª«ê¤ªê¾¨'' c •«ú²¬º¨¬ , «Zœª, µ«šÇ¨*š¬²à

1. ©ZÁ«'' -«ê— = 4 + 9 = 13.
2. ªj° ªÚ¾©r Ò c r 2 $, Bãc R ¶rà
3. 4 ªÚ¾©r Ò B r Bãc R $, ,ãCb ¶rà
4. 9 ªÚ¾©r Ò ’ r Bãc R $, C ãSB ¶rà
5. Answer: 18.46 kg ¨Z¨¬r C ãSB ¶rà

ªaÍ«•¶ê¨Ú: 12:30 /PM ªŠÇ ©ºÂ©úÇ ©ºÇ ¨Z¨¬r 2 ú•«*¾©R …ªŠÇ 15 /ªê¿ªŠ¿©ú®«ê, ©z,ªJµ¬Ú¯ ªaº ªa¹¬º,©ªÇ ©ºÇ. ªÊ¸ ©ZÍªú¾« Ç ª

1. 3 ©Z²«ê• = 3 /: /00.
2. 15 ªê¿ªŠ¿©ò Ò ó¢ ó Rà
3. 12:30 + 3:00 = 15:30.
4. 15:30 + 0:15 = 15:45 (3:45 /PM).
5. Answer: 3:45 /PM.

Advanced Level

ªaÍ«Ê¶¬Ú÷: 5 «šËªòÂ ¤¬² 7‹'' b G, ² r ¨¬ , ªêÂ«*Íªò ¶¬º§¬²à

1. x = 5.
2. 3x² = 3 × 25 = 75.
3. –4x = –20.
4. 75 – 20 + 7 = 62.
5. Answer: 62.

ªaÍ«šÀ¶©ÚÇ: ªŠÀ «Š®¬ •« £¬² ‰©ZÇ«*Ë: 2a + 3b = 18 ¨Z¨¬r b '' Ò Bà

1. From a – b = 4, a = b + 4.
2. Substitute into 2a + 3b = 18: 2(b + 4) + 3b = 18.
3. 2b + 8 + 3b = 18 !’ 5b + 8 = 18 !’ 5b = 10 !’ b = 2.
4. a = b + 4 = 6.
5. Answer: a = 6, b = 2.

ªaÍ«¶¾Ú'': …ªŠÇ 3 ªŠÀ«*¾¨'' ¬¬º²¬Ú¸ ªz°«êµªJÀ ªZÇ«*Àªê¾¨*¥¬ •©R ¬¬º² ©jÇ¨*š«Z¾ªŠË ªaÍ« ËªÊÇªÊ¿«*¿©úÀ «jÁ¨'' ›¬sð

1. ©ZÁ«'' ¬¬º² = 5 + 3 = 8.
2. «*¾«'' ¬¬º² ©jÇ¨*š«Z¾ªŠÀ ªaÍ« ËªÊÇªÊ¿«*¿©úÀ = 5/8.
3. ªŠÀ«*¾¨'' ¬¬º² ©jÇ¨*š«Z¾ªŠÀ ªaÍ« ËªÊÇªÊ¿«*¿©úÀ = 3/8.
4. Answer: 5/8 («*¾«''' …ªŠÇ 3/8 (ªŠÀ«*¾¨''à

ªaÍ«¤ê¶Ú: 12 /«ŠÇªêÀ ¨Z¨¬r Š¨*š«êˆ 8 /«ŠÇªêÀ ªz°«êµªJÀ ªJÍ« ¿©ZËª·¨¬ , ©ZÍ«zÇªJÍ« ««2 ¶¬º§¬²à

1. ©ZÍ«zÇªJÍ« ««2 Ò Ò r †ªz¾« r Š¨*š«êˆ.
2. ½ × 12 × 8 = 6 × 8 = 48.
3. Answer: 48 /«ŠÇªêÀ².

Common Mistakes and How to Avoid Them

Even seasoned students can fall prey to recurring errors when solving arithmetic questions in Gujarati. Below are the most frequent pitfalls and practical remedies.

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