

70 POINTS SELECT THE CORRECT ANSWER. HERE ARE FOUR DECIMAL NUMBERS: 0.39, 0.85, 0.731, 0.773 CHOOSE THE LIST

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INTRODUCTION TO DECIMAL NUMBERS AND THEIR SIGNIFICANCE

UNDERSTANDING DECIMAL NUMBERS IS FUNDAMENTAL IN VARIOUS FIELDS SUCH AS MATHEMATICS, FINANCE, ENGINEERING, AND DATA ANALYSIS. DECIMAL NUMBERS REPRESENT FRACTIONS IN A BASE-10 SYSTEM, MAKING THEM INTUITIVE AND EASY TO INTERPRET. WHEN PRESENTED WITH A SET OF DECIMAL NUMBERS, THE CHALLENGE OFTEN LIES IN COMPARING, ORDERING, AND ANALYZING THEM FOR SPECIFIC PURPOSES. IN THIS ARTICLE, WE WILL EXPLORE FOUR DECIMAL NUMBERS—0.39, 0.85, 0.731, AND 0.773—AND DELVE INTO METHODS TO COMPARE, RANK, AND SELECT THE CORRECT ANSWER OR LIST BASED ON SPECIFIC CRITERIA.

OVERVIEW OF THE GIVEN DECIMAL NUMBERS

LET'S BEGIN BY EXAMINING THE FOUR DECIMAL NUMBERS:

- 0.39
- 0.85
- 0.731
- 0.773

UNDERSTANDING THEIR RELATIVE SIZES, PROPERTIES, AND SIGNIFICANCE IS ESSENTIAL BEFORE MAKING ANY SELECTIONS OR CLASSIFICATIONS.

UNDERSTANDING DECIMAL PLACE VALUES

DECIMAL PLACE VALUES EXPLAINED

EACH DECIMAL NUMBER COMPRISES DIGITS IN DIFFERENT POSITIONS, EACH REPRESENTING A SPECIFIC VALUE:

- TENTHS PLACE: THE FIRST DIGIT AFTER THE DECIMAL POINT
- HUNDREDTHS PLACE: THE SECOND DIGIT AFTER THE DECIMAL POINT
- THOUSANDTHS PLACE: THE THIRD DIGIT AFTER THE DECIMAL POINT

FOR EXAMPLE, IN 0.731:

- 7 IS IN THE TENTHS PLACE ☐ 0.7

- 3 IS IN THE HUNDREDTHS PLACE $\boxed{3}$ 0.03
- 1 IS IN THE THOUSANDTHS PLACE $\boxed{1}$ 0.001

THIS POSITIONAL VALUE HELPS COMPARE NUMBERS ACCURATELY.

COMPARING THE DECIMAL NUMBERS

STEP-BY-STEP COMPARISON STRATEGY

TO DETERMINE THE RELATIVE SIZES OF 0.39, 0.85, 0.731, AND 0.773, FOLLOW THESE STEPS:

1. COMPARE THE WHOLE NUMBER PARTS: SINCE ALL NUMBERS ARE LESS THAN 1, THE COMPARISON HINGES ON THE DECIMAL PARTS.
2. COMPARE THE TENTHS DIGIT: THE FIRST DIGIT AFTER THE DECIMAL POINT.
3. IF NECESSARY, COMPARE SUBSEQUENT DIGITS: HUNDREDTHS, THOUSANDTHS, ETC.

APPLYING THIS:

- 0.39: TENTHS DIGIT = 3
- 0.85: TENTHS DIGIT = 8
- 0.731: TENTHS DIGIT = 7
- 0.773: TENTHS DIGIT = 7

BASED ON THE TENTHS DIGIT:

- 0.85 (8) IS LARGEST
- 0.773 AND 0.731 (7) ARE NEXT
- 0.39 (3) IS SMALLEST

NOW, COMPARE 0.773 AND 0.731 MORE PRECISELY:

- HUNDREDTHS DIGIT IN 0.773: 7
- HUNDREDTHS DIGIT IN 0.731: 3

SINCE $7 > 3$, $0.773 > 0.731$.

SUMMARY OF RELATIVE SIZES:

1. 0.85
2. 0.773
3. 0.731
4. 0.39

ORDERING THE NUMBERS: CREATING A LIST

BASED ON THE COMPARISON, THE ORDERED LIST FROM LARGEST TO SMALLEST IS:

1. 0.85
2. 0.773

3. 0.731

4. 0.39

THIS ORDERING IS ESSENTIAL IN VARIOUS CONTEXTS SUCH AS RANKING SCORES, FINANCIAL CALCULATIONS, OR DATA PRIORITIZATION.

APPLICATIONS OF DECIMAL COMPARISONS IN REAL-WORLD SCENARIOS

FINANCIAL ANALYSIS

IN FINANCE, COMPARING DECIMAL NUMBERS IS CRUCIAL WHEN ANALYZING INTEREST RATES, STOCK PRICES, OR PERCENTAGES. FOR EXAMPLE, WHEN SELECTING THE BEST INVESTMENT OPPORTUNITY:

- HIGHEST INTEREST RATE: 0.85 (85%)
- NEXT BEST: 0.773 (77.3%)
- FOLLOWED BY: 0.731 (73.1%)
- LOWEST: 0.39 (39%)

DATA SORTING AND CATEGORIZATION

SORTING DECIMAL DATA POINTS ALLOWS RESEARCHERS AND ANALYSTS TO CATEGORIZE DATA EFFICIENTLY. FOR EXAMPLE, STUDENT SCORES OR SURVEY RESPONSES OFTEN USE DECIMAL SCORES THAT NEED TO BE ORDERED.

CHOOSING THE CORRECT LIST BASED ON SPECIFIC CRITERIA

DEPENDING ON THE CONTEXT, THE "CORRECT" LIST MAY VARY:

- DESCENDING ORDER (LARGEST TO SMALLEST): USEFUL FOR RANKINGS, HIGHEST VALUES FIRST.
- ASCENDING ORDER (SMALLEST TO LARGEST): USEFUL FOR THRESHOLDS OR MINIMUM REQUIREMENTS.
- FILTERING BASED ON THRESHOLDS: FOR EXAMPLE, SELECTING NUMBERS GREATER THAN 0.7.

EXAMPLES OF LIST SELECTION:

- DESCENDING LIST:
 - 0.85
 - 0.773
 - 0.731
 - 0.39

- ASCENDING LIST:
 - 0.39
 - 0.731
 - 0.773
 - 0.85

CHOOSING THE CORRECT LIST:

IF THE TASK IS TO SELECT THE LIST WITH NUMBERS IN DESCENDING ORDER, THE ABOVE ORDERING APPLIES. FOR ASCENDING ORDER, REVERSE THE LIST.

UNDERSTANDING THE SIGNIFICANCE OF DECIMAL PRECISION

THE PRECISION OF DECIMAL NUMBERS CAN INFLUENCE DECISION-MAKING AND ANALYSIS. FOR EXAMPLE:

- ROUNDING TO TWO DECIMAL PLACES:

- 0.39 REMAINS 0.39
- 0.85 REMAINS 0.85
- 0.731 ROUNDS TO 0.73
- 0.773 ROUNDS TO 0.77

- ROUNDING TO THREE DECIMAL PLACES:

- 0.731 STAYS 0.731
- 0.773 STAYS 0.773

A CONSISTENT APPROACH TO DECIMAL PRECISION ENSURES CLARITY AND ACCURACY IN COMPARISONS.

COMMON MISTAKES TO AVOID WHEN COMPARING DECIMALS

WHEN COMPARING DECIMAL NUMBERS, AVOID THESE COMMON PITFALLS:

- IGNORING DECIMAL PLACES: COMPARING ONLY WHOLE NUMBERS CAN LEAD TO ERRORS.
- MISREADING DIGITS: ALWAYS VERIFY EACH DIGIT POSITION.
- ROUNDING ERRORS: BE CONSISTENT WITH ROUNDING RULES.
- ASSUMING EQUAL NUMBERS: EVEN A SMALL DIFFERENCE IN DECIMAL PLACES CAN AFFECT ORDER.

ADVANCED TECHNIQUES FOR DECIMAL NUMBER ANALYSIS

FOR MORE COMPLEX SCENARIOS, CONSIDER:

- CONVERTING DECIMALS TO FRACTIONS: FOR EXACT COMPARISONS.
- USING COMPUTER ALGORITHMS: FOR LARGE DATASETS.
- APPLYING STATISTICAL METHODS: WHEN DEALING WITH MEASUREMENT DATA.

CONCLUSION: MAKING THE CORRECT CHOICE

IN SUMMARY, COMPARING THE DECIMAL NUMBERS 0.39, 0.85, 0.731, AND 0.773 INVOLVES UNDERSTANDING PLACE VALUES, APPLYING SYSTEMATIC COMPARISON STRATEGIES, AND CONSIDERING THE CONTEXT FOR SELECTING THE APPROPRIATE LIST. WHETHER ORDERING FROM HIGHEST TO LOWEST OR VICE VERSA, CLARITY IN COMPARISON ENSURES ACCURATE DATA INTERPRETATION AND DECISION-MAKING.

FINAL TIPS FOR WORKING WITH DECIMAL NUMBERS

- ALWAYS COMPARE DIGITS STARTING FROM THE LEFTMOST DECIMAL PLACE.
- USE CONSISTENT DECIMAL PLACES FOR COMPARISON.

- CONVERT DECIMALS TO FRACTIONS WHEN PRECISION IS CRITICAL.
- BE AWARE OF ROUNDING RULES AND THEIR IMPLICATIONS.
- PRACTICE WITH VARIOUS DECIMAL SETS TO IMPROVE ACCURACY.

BY MASTERING THESE TECHNIQUES, YOU CAN CONFIDENTLY ANALYZE AND SELECT THE CORRECT LIST OF DECIMAL NUMBERS IN ANY SCENARIO, ENSURING PRECISION AND CORRECTNESS IN YOUR WORK.

FREQUENTLY ASKED QUESTIONS

WHICH OF THE FOLLOWING DECIMAL NUMBERS IS CLOSEST TO 0.75: 0.39, 0.85, 0.731, 0.773?

0.773

AMONG THESE NUMBERS: 0.39, 0.85, 0.731, 0.773, WHICH IS THE HIGHEST VALUE?

0.85

WHICH DECIMAL NUMBER IS THE SMALLEST AMONG 0.39, 0.85, 0.731, 0.773?

0.39

IF YOU ARRANGE THE NUMBERS 0.39, 0.85, 0.731, 0.773 IN ASCENDING ORDER, WHICH NUMBER COMES THIRD?

0.773

WHICH OF THE FOLLOWING IS CLOSEST TO 0.75: 0.39, 0.85, 0.731, 0.773?

0.773

ADDITIONAL RESOURCES

70 POINTS
SELECT THE CORRECT ANSWER. HERE ARE FOUR DECIMAL NUMBERS: 0.39, 0.85, 0.731, 0.773
CHOOSE THE LIST

IN THE REALM OF MATHEMATICS AND DATA ANALYSIS, UNDERSTANDING DECIMAL NUMBERS AND THEIR RELATIVE POSITIONS IS FUNDAMENTAL. WHETHER YOU'RE A STUDENT TACKLING A TEST, A DATA SCIENTIST INTERPRETING NUMERICAL DATA, OR SIMPLY A CURIOUS MIND EXPLORING NUMERICAL RELATIONSHIPS, BEING ABLE TO COMPARE AND ORDER DECIMAL NUMBERS ACCURATELY IS A VITAL SKILL. TODAY, WE DELVE INTO A SPECIFIC EXERCISE: SELECTING THE CORRECT LIST BASED ON A SET OF FOUR DECIMAL NUMBERS—0.39, 0.85, 0.731, AND 0.773. THIS SEEMINGLY STRAIGHTFORWARD TASK INVOLVES UNDERSTANDING DECIMAL PLACE VALUE, COMPARING MAGNITUDES, AND CHOOSING THE RIGHT SEQUENCE BASED ON THE CONTEXT, WHETHER ASCENDING OR DESCENDING ORDER, OR BASED ON SPECIFIC CRITERIA.

THIS ARTICLE AIMS TO UNPACK THE PROCESS BEHIND SUCH AN EXERCISE, EXPLORING THE NUANCES OF DECIMAL COMPARISON, COMMON PITFALLS, AND PRACTICAL APPLICATIONS. WE WILL DISSECT EACH NUMBER, EXAMINE THE METHODS TO COMPARE THEM EFFECTIVELY, AND GUIDE YOU THROUGH CONSTRUCTING THE CORRECT LIST WITH CLARITY AND CONFIDENCE.

UNDERSTANDING DECIMAL NUMBERS: THE BASICS

BEFORE JUMPING INTO COMPARISONS, IT'S ESSENTIAL TO UNDERSTAND WHAT DECIMAL NUMBERS ARE AND HOW THEY FUNCTION.

WHAT ARE DECIMAL NUMBERS?

DECIMAL NUMBERS ARE NUMBERS EXPRESSED IN THE BASE-10 NUMERAL SYSTEM, WHICH USES A DECIMAL POINT TO SEPARATE THE WHOLE PART FROM THE FRACTIONAL PART. FOR EXAMPLE, IN 0.731, THE '0' IS THE WHOLE PART, AND '731' IS THE FRACTIONAL PART, REPRESENTING 731 THOUSANDTHS.

SIGNIFICANCE OF DECIMAL PLACES

- PLACE VALUE: THE POSITION OF EACH DIGIT AFTER THE DECIMAL POINT INDICATES ITS VALUE—TENTHS, HUNDREDTHS, THOUSANDTHS, ETC.
- PRECISION: MORE DECIMAL PLACES OFTEN IMPLY HIGHER PRECISION, WHICH IS ESPECIALLY IMPORTANT IN SCIENTIFIC MEASUREMENTS.

UNDERSTANDING THESE BASICS ALLOWS US TO COMPARE DECIMAL NUMBERS ACCURATELY.

COMPARING THE GIVEN DECIMAL NUMBERS

THE CORE OF THE TASK INVOLVES ESTABLISHING THE RELATIVE SIZE OF EACH NUMBER: 0.39, 0.85, 0.731, AND 0.773.

STEP 1: EQUALIZE THE DECIMAL PLACES (OPTIONAL BUT HELPFUL)

WHILE IT'S NOT NECESSARY, ALIGNING DECIMAL PLACES BY ADDING ZEROS CAN FACILITATE COMPARISON:

- 0.39 $\rightarrow$ 0.390
- 0.85 $\rightarrow$ 0.850
- 0.731 $\rightarrow$ 0.731
- 0.773 $\rightarrow$ 0.773

THIS STANDARDIZATION MAKES DIGIT-BY-DIGIT COMPARISON STRAIGHTFORWARD.

STEP 2: COMPARE THE WHOLE NUMBER PARTS

SINCE ALL NUMBERS ARE LESS THAN 1, THEIR WHOLE PARTS ARE ZERO, SO THE COMPARISON PROCEEDS TO THE FRACTIONAL PARTS.

STEP 3: COMPARE DIGIT BY DIGIT

STARTING FROM THE TENTHS PLACE:

- 0.390 $\rightarrow$ 3 IN TENTHS
- 0.850 $\rightarrow$ 8 IN TENTHS
- 0.731 $\rightarrow$ 7 IN TENTHS
- 0.773 $\rightarrow$ 7 IN TENTHS

ORDER BASED ON TENTHS DIGIT:

- HIGHEST: 8 (0.850)
- NEXT: 7 (0.731 AND 0.773)
- LOWEST: 3 (0.390)

WITHIN THE 7S, COMPARE THE HUNDREDTHS PLACE:

- 0.731 $\rightarrow$ 3 IN HUNDREDTHS
- 0.773 $\rightarrow$ 7 IN HUNDREDTHS

SINCE $7 > 3$, $0.773 > 0.731$.

FINAL ORDER FROM SMALLEST TO LARGEST:

1. 0.39 (or 0.390)
2. 0.731
3. 0.773
4. 0.85

ALTERNATIVELY, FROM LARGEST TO SMALLEST:

- 0.85
- 0.773
- 0.731
- 0.39

CONSTRUCTING THE CORRECT LIST: CRITERIA AND OPTIONS

DEPENDING ON THE TASK'S REQUIREMENTS, THE "CORRECT LIST" CAN REFER TO VARIOUS ORDERINGS:

- ASCENDING ORDER (SMALLEST TO LARGEST)
- DESCENDING ORDER (LARGEST TO SMALLEST)
- BASED ON SPECIFIC ATTRIBUTES (E.G., CLOSEST TO A CERTAIN VALUE)

FOR THE PURPOSE OF THIS EXERCISE, LET'S ASSUME THE GOAL IS TO ORDER THE NUMBERS FROM SMALLEST TO LARGEST.

PRACTICAL APPLICATIONS OF DECIMAL ORDERING

UNDERSTANDING HOW TO COMPARE AND ORDER DECIMALS HAS BROAD IMPLICATIONS:

1. DATA SORTING IN PROGRAMMING

SORTING DATA SETS THAT INVOLVE DECIMAL VALUES IS FUNDAMENTAL IN PROGRAMMING, FROM DATABASE MANAGEMENT TO MACHINE LEARNING.

2. FINANCIAL CALCULATIONS

ACCURATE COMPARISON OF MONETARY VALUES, INTEREST RATES, AND FINANCIAL METRICS DEPENDS ON PRECISE DECIMAL COMPARISON.

3. SCIENTIFIC MEASUREMENTS

EXPERIMENTS OFTEN RECORD MEASUREMENTS WITH HIGH PRECISION, REQUIRING CAREFUL COMPARISON OF DECIMAL READINGS.

4. EDUCATIONAL ASSESSMENT

TESTS AND EXERCISES LIKE THE ONE DISCUSSED HELP STUDENTS DEVELOP CRITICAL THINKING AND NUMERICAL LITERACY.

COMMON PITFALLS AND HOW TO AVOID THEM

WHILE COMPARING DECIMALS MAY SEEM STRAIGHTFORWARD, CERTAIN PITFALLS CAN LEAD TO ERRORS:

1. IGNORING DECIMAL PLACES

ASSUMING NUMBERS ARE EQUAL BASED SOLELY ON THE FIRST FEW DIGITS CAN LEAD TO MISTAKES. ALWAYS COMPARE DIGIT BY DIGIT BEYOND THE DECIMAL POINT.

2. MISREADING THE DIGITS

MISINTERPRETING 0.731 AS 0.713, FOR EXAMPLE, CAN THROW OFF THE ENTIRE COMPARISON. DOUBLE-CHECK EACH DIGIT DURING COMPARISON.

3. OVERLOOKING LEADING ZEROS

LEADING ZEROS DO NOT AFFECT VALUE BUT CAN CAUSE CONFUSION IF NOT CAREFUL, E.G., 0.039 VS. 0.39.

TO AVOID THESE PITFALLS, ALWAYS STANDARDIZE THE DECIMAL LENGTH AND COMPARE SEQUENTIALLY.

FINAL LIST: ORDERING THE NUMBERS

BASED ON THE DETAILED COMPARISON, THE CORRECT LIST FROM SMALLEST TO LARGEST IS:

1. 0.39 (or 0.390)
2. 0.731
3. 0.773
4. 0.85

THIS ORDERING HELPS CLARIFY THE RELATIVE SIZES AND SUPPORTS DECISION-MAKING IN VARIOUS PRACTICAL CONTEXTS.

CONCLUDING REMARKS: WHY MASTERING DECIMAL COMPARISONS MATTERS

THE ABILITY TO COMPARE DECIMAL NUMBERS ACCURATELY IS A FOUNDATIONAL SKILL IN MATHEMATICS THAT EXTENDS INTO NUMEROUS REAL-WORLD APPLICATIONS, FROM FINANCE TO SCIENCE AND TECHNOLOGY. BY UNDERSTANDING PLACE VALUE, PRACTICING DIGIT-BY-DIGIT COMPARISON, AND BEING AWARE OF COMMON PITFALLS, LEARNERS AND PROFESSIONALS ALIKE CAN DEVELOP CONFIDENCE IN HANDLING DECIMAL DATA.

WHETHER YOU'RE PREPARING FOR A TEST, ANALYZING DATA, OR MAKING FINANCIAL DECISIONS, MASTERING THESE CONCEPTS ENSURES PRECISION AND CLARITY. REMEMBER, THE KEY IS PATIENCE AND ATTENTION TO DETAIL—TWO VIRTUES THAT TURN A SIMPLE EXERCISE INTO A POWERFUL SKILL.

IN SUMMARY, THE TASK OF SELECTING THE CORRECT LIST FROM THE NUMBERS 0.39, 0.85, 0.731, AND 0.773 INVOLVES UNDERSTANDING THEIR RELATIVE SIZES THROUGH PLACE VALUE COMPARISON. THE CORRECT ASCENDING ORDER IS:

0.39, 0.731, 0.773, 0.85

A CLEAR GRASP OF DECIMAL COMPARISON NOT ONLY HELPS IN ACADEMIC SETTINGS BUT ALSO EMPOWERS INFORMED DECISION-MAKING ACROSS DIVERSE FIELDS.

70 Pointsselect The Correct Answer Here Are Four Decimal Numbers 0 39 0 85 0 731 0 773choose The List

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