

Exercise walk-through

10.1

Quantitative response formats: all valid values and numerical entry

GRE · GRE · GRE General Test

7. Read the evidence and choose a method

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A requested fraction and a requested decimal require different entry forms. Equivalent fractions are accepted in official Numeric Entry; simplify if needed to fit the boxes. Apply rounding only at the end when instructed. Check units: a percentage answer 25 differs from a probability answer 0.25. The free local numerical drill below requests an exact terminating decimal; it is a teaching check, not a replacement for the official two-box fraction interface.

9. Worked reasoning

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Original select-all: x is real and $(x-2)(x+3)=0$. Choices $-3, -2, 0, 2, 3$. Select -3 and 2 , and verify each factorisation root in the original. If the stem additionally requires $x > 0$, only 2 remains. Original numerical entry: three of eight equally likely counters are marked; enter the probability as a decimal. $P(\text{marked})=3/8=0.375$. Enter 0.375 , not 37.5 (a percent value) or 3 (the count).

15. Reasoning and check

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-2, 2 and 3; 0.58. The first restriction keeps integers -2 through 3. The strict squared inequality excludes -1,0,1. Four fails the strict upper endpoint; -3 fails the lower bound. The decimal $7/12 = 0.58333\dots$ rounds to 0.58. The rounding instruction here is explicit; an exact fraction response would require the fraction representation instead. Check each listed value and retain every valid one.

Exercises 2.1·3.1

2.1 Select all real solutions of $\sqrt{x+6} = x$ from -3, -2, 0, 2, 3. Then enter the probability

3 Exam-style questions

3.1 Select every listed integer satisfying $-2 \leq x < 4$ and $x^2 > 1$: -3, -2, -1, 0, 1, 2, 3, 4.

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3 Exam-style questions

2.1 3 only; 0.35. The original radical requires x nonnegative. Squaring gives $x^2 - x - 6 = (x - 3)(x + 2) = 0$. The candidate -2 fails both the sign condition and substitution. At 3 both sides equal three. For the probability, the denominator is twenty, so $P = 7/20 = 0.35$. Enter a probability, not the percent value 35.

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Local review checklist: follow every response instruction; support the answer with the stated evidence; explain rejected alternatives or an opposing view; check scope, restrictions and clarity. For writing, this is a formative checklist, not an official rubric score.