

ONE-STEP INEQUALITIES SOLVE FOR X

One skill, start to finish: the IEP goal, six probe forms, the graph. Untimed. Fillable PDF.

ONE-STEP INEQUALITIES One-Step Inequalities – Goal and Directions

Goal, baseline, directions and benchmarks for one skill. Untimed. Score is inequalities solved correctly out of 10.

Ten one-step inequalities per form in two groups of five: addition/subtraction (three addition, two subtraction) and multiplication/division (three multiplication, two division), every one solved by the INVERSE of the operation printed, the same convention this one-step equations probe uses. Multiplication and division are always by a positive integer, so the inequality symbol never flips between the problem and the solution. Sixty different inequalities across the six forms, the addition/subtraction and multiplication/division banks each dedicated against their own underlying fact, and every form carries all four relation symbols.

Sample goal — invented; edit every bracket to fit the student

By [annual review date], when given 10 one-step inequalities involving addition, subtraction, multiplication and division, [Student] will solve for the variable and write the solution as an inequality correctly on 8 of 10 items on 3 consecutive weekly probes, as measured by teacher-scored one-step inequality probes.

BY (DATE) CRITERION (SCORE OUT OF 10, OR PERCENT)

GIVEN CONDITION: WHAT IS SHOWN, ANY ALLOWED SUPPORT

ON ____ OF ____ CONSECUTIVE PROBES

STUDENT WILL (THE BEHAVIOR, IN THE WORDS OF THE PROBE)

AS MEASURED BY (THIS PROBE: ONE-STEP INEQUALITIES FOR X, FORMS A-F, PAGE 6-12)

Baseline: give Forms A, B and C on three days and take the middle score

Benchmarks toward the goal

BASLINE PROBE 1	BASLINE PROBE 2	BASLINE PROBE 3	MEDIAN (THE BASLINE)

BENCHMARK	TARGET DATE	TARGET SCORE	ACTUAL SCORE	MEET

Giving and scoring the probe

- ☐ Say, "Solve each inequality for x. Write the solution, including the sign, in the box."
- ☐ Correct: the exact inequality, written with its relation symbol and the value, for example $x < 4$ — not the number alone.
- ☐ A written solution missing the relation symbol (the box reads just a number) is a specific error, separate from an

My name: _____

One-Step Inequalities - Form A

Date: _____

Solve each inequality for x. Write the solution, including the relation symbol, in the box.

Addition & Subtraction

Multiplication & Division

1 $x + 18 \leq 28$
x

1 $x \div 11 \leq 9$
x

2 $x + 18 > 29$
x

2 $6x < 60$
x

3 $x - 17 > 23$
x

3 $x \div 9 > 12$
x

4 $x - 2 < 13$
x

4 $12x \geq 84$
x

ONE-STEP INEQUALITIES One-Step Inequalities – Data Log and Graph

One row per probe. Three points in a row under the aim line is a decision, not a feeling: change the teaching and write what changed in the notes.

STUDENT CRITERION / AIM GOAL DATE

CORRECT OUT OF 10 - DRAW THE AIM LINE FROM THE BASELINE TO THE CRITERION FIRST, THEN PLOT EACH WEEK



DATE FORM CORRECT ERRORS SCORE USED ON GRAPH NOTES (CONDITIONS, WHAT WAS RETACHED)

DATE	FORM	CORRECT	ERRORS	SCORE USED ON GRAPH	NOTES (CONDITIONS, WHAT WAS RETACHED)

ONE-STEP INEQUALITIES One-Step Inequalities – Caseload Summary

Every student on this goal, on one grid. Twelve rows, eight probes, one decision column.

TEACHER / CASE MANAGER SKILL (AS THE GOAL WORDS IT) MARKING PERIOD

STUDENT	BASLINE	CRITERION	P1	P2	P3	P4	P5	P6	P7	P8	TREND	DECISION THIS MONTH

How to fill it

- ☐ One row per student who has a goal on this skill. Baseline is the median of the first three probes.
- ☐ One column per weekly probe; write the score out of 10, not a percent, so the rows compare.
- ☐ Trend: up, flat or down over the last four probes. That word, not the last score, is what the decision follows.
- ☐ Decision: keep going, change the teaching, or raise

What it is for

Grouping: When six students sit on the same goal, the individual graphs answer "how is this child doing" and nothing answers "who needs the same fifteen minutes." Rows that are flat together are a group; a row that is flat alone is a different question. Take this page to the data meeting instead of ten folders.

EXAMPLE A Filled-In Data Log (Invented Student)

Marcus is invented. Twelve weekly probes on one-step inequalities for x, the aim line, the change that three low points forced, and the criterion being met.

The goal, as written for Marcus, seventh grade (invented)

By May 20, when given 10 one-step inequalities involving addition, subtraction, multiplication and division, Marcus will solve for the variable and write the solution as an inequality correctly on 8 of 10 items on 3 consecutive weekly probes, as measured by teacher-scored one-step inequality probes (forms A-F).

#	DATE	FORM	CORRECT	ERRORS	GRAPHED	NOTES
1	9/8	A	4	6	4	baseline
2	9/9	B	4	6	4	baseline
3	9/10	C	5	5	5	baseline (median of 4, 4, 5 = 4)
4	9/17	D	4	6	4	solved $x+2 \leq 17$ correctly but wrote only the number 15 in the box, dropping the relation symbol, so $x=15$ was recorded as plain 15.
5	9/24	E	3	7	3	same pattern
6	10/1	F	4	6	4	3 under aim line: circled the relation symbol in the problem and copied it into the answer box before writing the number, on a week of inequality warm-ups.
7	10/8	A	6	4	6	—
8	10/15	B	6	4	6	—
9	10/22	C	7	3	7	errors narrowing to one pattern
10	10/29	D	7	3	7	—
11	11/5	E	8	2	8	criterion met, 1 of 3
12	11/12	F	8	2	8	criterion met, 2 of 3

How to read the log

- ☐ Baseline was the median of three forms on three days: 4, 4, 5, so 4. Not the average, not the best.
- ☐ The aim line runs from 4 in week 1 to 8 at the goal date. Probes 4, 5 and 6 (4, 3, 4) sat under it three in a row, so the teaching changed and the change is written on the row.
- ☐ The notes name the pattern, not just the count: "solved $x+2 \leq 17$ correctly but wrote only the number 15 in the box, dropping the relation symbol, so $x=15$ was recorded as plain 15" is what sent the teaching somewhere specific, and a score on its own would not have said that.
- ☐ Criterion met on probes 11 and 12, one more consecutive probe at 8 or better and the goal is met.

PROGRESS MONITORING How This Pack Works

Goal, baseline, weekly probe, graph, decision. Six steps, one skill.

A progress monitoring goal needs a thing to count and a page to count it on. This file is both, for one skill: a goal written in the probe's own words, 6 equivalent forms of the probe that measures it, and a graph scaled to it. Nothing has to be built or found.

- Baseline.** Give Forms A, B and C on three different days. The middle score of the three is the baseline; write it on the goal page.
- Write the goal** from the six-part frame on the goal page. Start from the sample and change every bracket: the date, the condition, the criterion, the number of probes.
- Probe once a week** with the forms in rotation (A, B, C, D, E, F, A...). Never the same form two weeks running. Every form is ten items, untimed. Score it against the answer key (pages 16-17).
- Log and plot** the score the same day. Draw the aim line first, from the baseline on the left to the criterion at the goal date on the right; then plot each week's dot.
- Decide from the graph.** Three dots in a row under the aim line: change the teaching this week and write the change on the log. Three in a row over it: raise the target.
- Report from the log.** The log gives the progress report its numbers: baseline, the last two scores, and what the errors keep landing on.

The weekly routine, about five minutes

- ☐ Monday: pull the next form in the rotation (A, B, C, D, E, F, A...).
- ☐ Any day: give the probe one-to-one, untimed; ten items takes a few minutes.
- ☐ Same day: score it, log the row, plot the point, look at the last three points.
- ☐ Friday: if three points sit under the aim line, write the change you are making on the log.

Print and prep

- ☐ Print one copy per student per week: the student writes on the form and that same sheet is the one you score.
- ☐ The forms are student sheets with nothing on them but the problems. The answer key and the Correct ____ / 10 box for every form are on pages 16 and 17; score there, then log 8.
- ☐ Keep the goal page and the graph page for each student at the front of the data folder; type into them or write on them.
- ☐ The caseload page is one grid for every student on this goal; print it once a month.

What this probe is not

It is not a norm-referenced test and it carries no benchmark score. The sample goal uses invented

Equivalent forms, and why it matters

Every form has ten items drawn the same way, from one shuffle of the same bank, and no item appears

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What this probe is not

It is not a norm-referenced test and it carries no benchmark score. The sample goal uses invented criteria in brackets; your team sets the real ones from the baseline and the student's IEP. Every form is untimed and ten items long, so a score of 8 means the same thing on every form, and a student is never scored on speed.

Equivalent forms, and why it matters

Every form has ten items drawn the same way, from one shuffle of the same bank, and no item appears on two forms — 60 different items across the six forms. A score on one form means the same as a score on another, so the line on the graph is the student, not the paper. Rotate the forms and the page cannot be memorized.

One-Step Inequalities – Goal and Directions

Goal, baseline, directions and benchmarks for one skill. Untimed; score is inequalities solved correctly out of 10.

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Sample goal — invented; edit every bracket to fit the student

By [annual review date], when given 10 one-step inequalities involving addition, subtraction, multiplication and division, [Student] will solve for the variable and write the solution as an inequality correctly on [8 of 10] items on [3] consecutive weekly probes, as measured by teacher-scored one-step inequality probes.

BY (DATE)

CRITERION (SCORE OUT OF 10, OR PERCENT)

GIVEN (CONDITION: WHAT IS SHOWN, ANY ALLOWED SUPPORT)

ON ____ OF ____ CONSECUTIVE PROBES

STUDENT WILL (THE BEHAVIOR, IN THE WORDS OF THE PROBE)

AS MEASURED BY (THIS PROBE: ONE-STEP INEQUALITIES FOR X, FORMS A–F, PAGE 6–11)

Baseline: give Forms A, B and C on three days and take the middle score

BASILINE PROBE 1	BASILINE PROBE 2	BASILINE PROBE 3	MEDIAN (THE BASELINE)

Benchmarks toward the goal

BENCHMARK	TARGET DATE	TARGET SCORE	ACTUAL SCORE	MET?

Giving and scoring the probe

- ☐ Say: "Solve each inequality for x. Write the solution, including the sign, in the box."
- ☐ Correct: the exact inequality, written with its relation symbol and the value, for example $x < 4$ -- not the number alone.
- ☐ A missing relation symbol is a specific error, separate from an inverse-operation error.
- ☐ Untimed. Let the student finish all ten.

Scoring rules for this student (accepted answers, reversals, supports allowed)

What the errors say to reteach (carry over from the log)

My name: _____ Date: _____

 Solve each inequality for x . Write the solution, including the relation symbol, in the box.

Addition & Subtraction

1

$$x + 18 \leq 28$$

x

2

$$x + 18 > 29$$

x

3

$$x - 17 > 23$$

x

4

$$x - 2 < 13$$

x

5

$$x + 19 \geq 35$$

x

Multiplication & Division

6

$$x \div 11 \leq 9$$

x

7

$$6x < 60$$

x

8

$$x \div 9 > 12$$

x

9

$$12x \geq 84$$

x

10

$$9x < 90$$

x

My name: _____ Date: _____

 Solve each inequality for x . Write the solution, including the relation symbol, in the box.

Addition & Subtraction

1

$$x + 24 \leq 42$$

x

2

$$x + 10 \leq 26$$

x

3

$$x + 15 < 22$$

x

4

$$x - 3 > 15$$

x

5

$$x - 7 \geq 18$$

x

Multiplication & Division

6

$$8x \geq 104$$

x

7

$$x \div 10 < 5$$

x

8

$$x \div 8 > 6$$

x

9

$$3x < 18$$

x

10

$$4x > 12$$

x

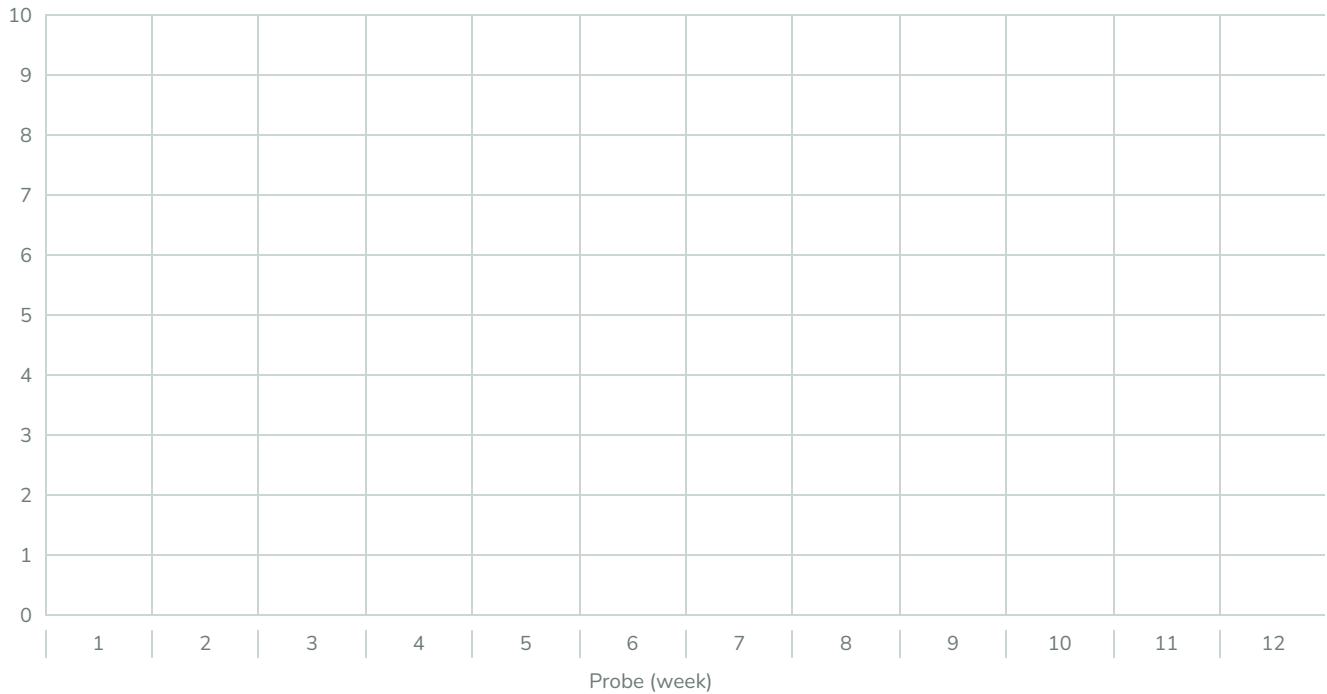
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STUDENT

CRITERION / AIM

GOAL DATE

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TEACHER / CASE MANAGER

SKILL (AS THE GOAL WORDS IT)

MARKING PERIOD

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- ☐ Decision: keep going, change the teaching, or raise the target. A blank decision on a flat row is the thing this page exists to catch.

What it is for

Grouping. When six students sit on the same goal, the individual graphs answer “how is this child doing” and nothing answers “who needs the same fifteen minutes.” Rows that are flat together are a group; a row that is flat alone is a different question. Take this page to the data meeting instead of ten folders.

EXAMPLE

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- ☐ Criterion met on probes 11 and 12; one more consecutive probe at 8 or better and the goal is met.

The progress report sentence this log produces

“On weekly one-step inequalities for x probes (10 items, untimed), Marcus scored 4 of 10 at baseline in September and 8 of 10 on each of the two most recent probes in November. Progress is sufficient to meet the goal of 8 of 10 on three consecutive probes by May.” Every number in it is on the log above; nothing is from memory.