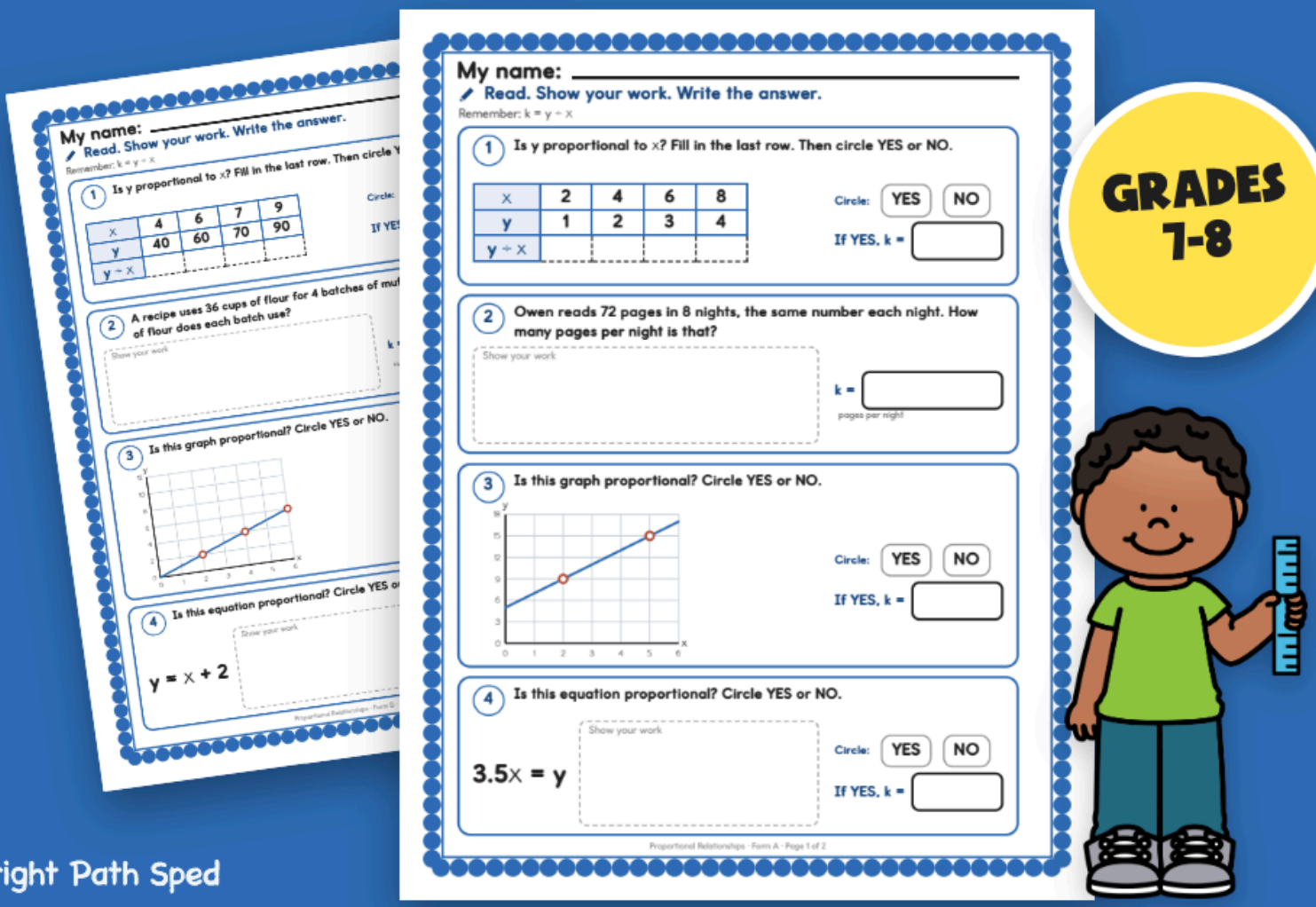
PROPORTIONAL RELATIONSHIPS

PROGRESS MONITORING PROBES



Bright Path Sped

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One classroom license

- This file is for one classroom: one teacher, one caseload.
- Please do not share it, post it online, or sell it.
- Extra licenses for a team or a school are available on the product page.

This is a fillable PDF

- Open it in a PDF reader (Adobe Acrobat Reader, Preview, or your browser), click into a line or box, type, and Save As once per student.
- Print one copy of both pages of a form per student per week: the student writes on the form and that same sheet is the one you score.
- It works offline. No account, no subscription, no internet connection needed after you download it.

Student data

Completed pages carry a real student's name and scores. Store, hand over and destroy this file the same way you would any other student record.

Need help?

If a field will not behave, a page will not print the way you expect, or anything here looks wrong, use Ask a Question on the product page before leaving a review. Every question is read, and a fix to the file ships as a free update — re-download it any time from My Purchases.

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PREVIEW

Binder Cover, Spine Label & Divider Tabs

A binder cover, six divider tabs, and a short setup list.

Binder cover & spine label

Student _____ Case manager _____ School year _____

Goal start date _____ Next review date _____

Cut along the outer edge and use as a binder cover, a folder label, or a clipboard cover for this student's probe folder.

Divider tabs — print and cut

01 Start Here
The six-step routine, one page.

02 The Goal
The written goal, directions, and where forms A–F fit.

03 Probe Forms
The 6 rotating forms, two pages each, one form per week.

04 Graph & Decision
The aim line, the weekly plot, the three-in-a-row rule.

05 Caseload Summary
Every student on this goal, one grid, once a month.

06 Family Update
The note home and the handoff sheet, ready to fill in.

Before the first probe

- Write the goal from the sample and change every bracket for this student.
- Give the baseline: three forms, three different days, before the first plotted point.
- Share the rotation (A, B, C, D, E, F) with anyone else who might give a form.

PREVIEW

Giving and Scoring the Probe

The same way every week, so a change in the score is a change in the student.

Giving the probe

- Say: "Read each problem. Show your work in the box. Write your answers in the answer boxes."
- Correct: every answer box on the problem is right and legible. Items 5, 8 have two answer boxes; the problem is right only when both are. Your team decides whether partial credit counts and whether the work box is scored. Write that rule on the line below before the baseline.
- Note which kind of problem each miss falls on (the key marks it): table, graph, equation or story.
- Untimed. Let the student finish all eight.

What is on every form

- Two student pages, four problems a page, 8 problems in all.
- Two tables, two graphs, two equations and two stories, in the same places on every form.
- Two of the four YES or NO problems are proportional and two are not, in a different order on each form.
- k is the constant of proportionality, the unit rate: y ÷ x. The student writes it as a number.

Tables

Problems 1, 5 on every form. The student checks whether y ÷ x is the same in every column. The last row of the first table is there for those divisions.

Graphs

Problems 3, 6. A line, with open dots on the gridline crossings it passes through. The student reads a dot as (x, y) and checks whether the line starts at (0, 0).

Equations

Problems 4, 8. An equation is proportional when it is y = kx and nothing else is added. One problem asks YES or NO; one asks for k and for y.

Stories

Problems 2, 7. One asks for the unit rate (that is k); one asks whether the story is proportional. Stories that start above zero are not.

If the student needs the problems read aloud, or other help

Follow the supports in the student's IEP, give them the same way each week, and write them on the goal page so the next person gives the probe the same way.

Notes for whoever gives the probe next (the seat, the supports, anything that helps)

PREVIEW

Preview - Bright Path Sped

My name: _____

Read. Show your work. Write the answer.

Remember: k = y ÷ x

1 **Is y proportional to x? Fill in the last row. Then circle YES or NO.**

x	2	4	6	8
y	1	2	3	4
y ÷ x				

Circle: YES NO

If YES, k = _____

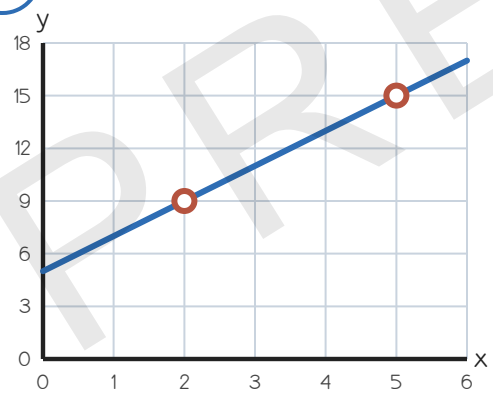
2 **Owen reads 72 pages in 8 nights, the same number each night. How many pages per night is that?**

Show your work

k = _____

pages per night

3 **Is this graph proportional? Circle YES or NO.**



Circle: YES NO

If YES, k = _____

4 **Is this equation proportional? Circle YES or NO.**

$3.5x = y$

Show your work

Circle: YES NO

If YES, k = _____

PREVIEW

Preview - Bright Path Sped

My name: _____

Read. Show your work. Write the answer.

Remember: k = y ÷ x

1 **Is y proportional to x? Fill in the last row. Then circle YES or NO.**

x	2	6	7	9
y	6	18	19	27
y ÷ x				

Circle: YES NO

If YES, k = _____

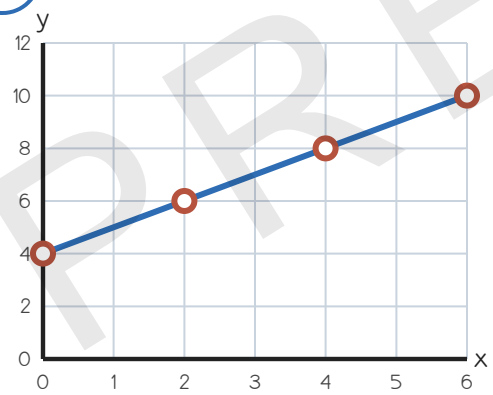
2 **Raj walks 12 miles in 8 hours at the same speed the whole time. How many miles per hour is that?**

Show your work

k = _____

miles per hour

3 **Is this graph proportional? Circle YES or NO.**



Circle: YES NO

If YES, k = _____

4 **Is this equation proportional? Circle YES or NO.**

$y = 2x$

Show your work

Circle: YES NO

If YES, k = _____

PREVIEW

Preview - Bright Path Shed

My name: _____

Read. Show your work. Write the answer.

Remember: k = y ÷ x

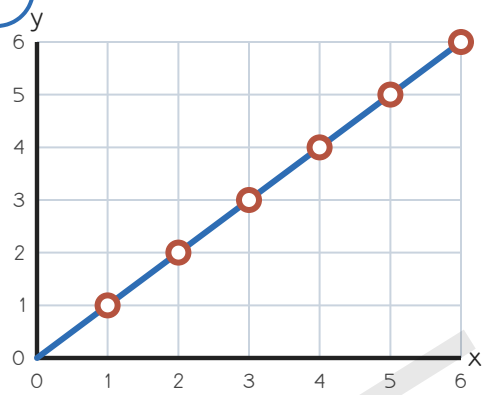
5 **This table is proportional. Find k. Then write the missing y in the table.**

x	2	5	7	9
y	16	40	56	

k = ☐

Missing y = ☐

6 **This graph is proportional. Find k. Then finish the equation.**



k = ☐

y = ☐ x

7 **Theo is 9 years older than Nina. Is Theo's age proportional to Nina's age?**

Because...

Circle: YES NO

8 **The equation is y = 3.5x. Find k. Then find y when x = 2.**

y = 3.5x

Show your work

k = ☐

y = ☐

Color a star when you finish!

PREVIEW

Preview - Bright Path Sped

My name: _____

Read. Show your work. Write the answer.

Remember: k = y ÷ x

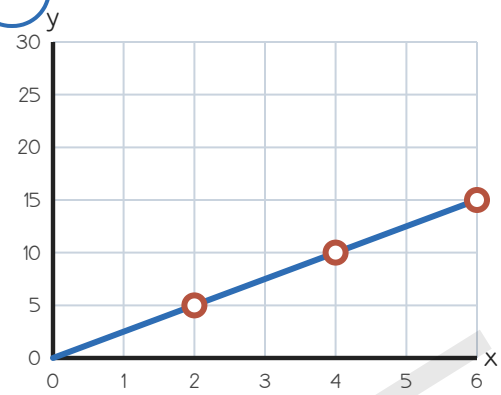
5 **This table is proportional. Find k. Then write the missing y in the table.**

x	5	6	7	8
y	40	48		64

k = ☐

Missing y = ☐

6 **This graph is proportional. Find k. Then finish the equation.**



k = ☐

y = ☐ x

7 **Sam is 6 years older than Pia. Is Sam's age proportional to Pia's age?**

Because...

Circle: YES NO

8 **The equation is y = 4x. Find k. Then find y when x = 6.**

y = 4x

Show your work

k = ☐

y = ☐

Color a star when you finish!

PREVIEW

Preview - Bright Path Sped

My name: _____

Read. Show your work. Write the answer.

Remember: k = y ÷ x

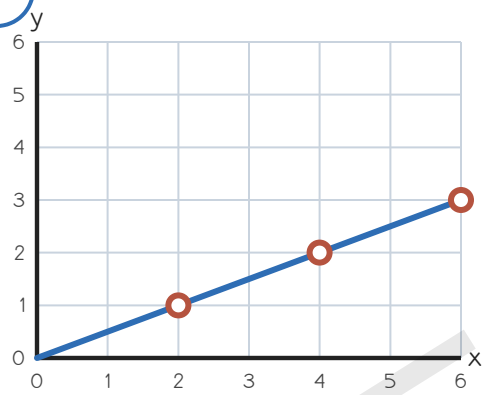
5 **This table is proportional. Find k. Then write the missing y in the table.**

x	2	6	8	10
y	3	9	12	

k = ☐

Missing y = ☐

6 **This graph is proportional. Find k. Then finish the equation.**



k = ☐

y = ☐ x

7 **A hose puts 9 gallons of water into an empty tub every minute. Is the water in the tub proportional to the number of minutes?**

Because...

Circle: YES NO

8 **The equation is y = 8x. Find k. Then find y when x = 4.**

y = 8x

Show your work

k = ☐

y = ☐

Color a star when you finish!

PREVIEW

Preview - Bright Path Shed

My name: _____

Read. Show your work. Write the answer.

Remember: k = y ÷ x

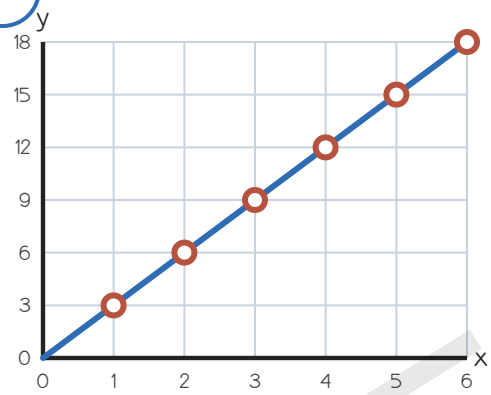
5 **This table is proportional. Find k. Then write the missing y in the table.**

x	1	2	5	7
y	10	20	50	

k = ☐

Missing y = ☐

6 **This graph is proportional. Find k. Then finish the equation.**



k = ☐

y = ☐ x

7 **Theo reads 8 pages every night. Is the number of pages read proportional to the number of nights?**

Because...

Circle: YES NO

8 **The equation is y = 3.5x. Find k. Then find y when x = 8.**

y = 3.5x

Show your work

k = ☐

y = ☐

Color a star when you finish!

PREVIEW

Teacher Notes - Reading the Misses

Which kind of problem is missed, and what the work box shows, tells you what to teach next.

What this probe measures

- Whether a student can tell a proportional relationship from one that is not, in a table, a graph, an equation or a story, and can find the constant of proportionality k.
- It is a quick weekly check against a goal you write. It is not a norm-referenced test and carries no benchmark score.

k from one pair only

- The student divides y by x for the first column and stops.
- Teach the habit of checking every column. The y ÷ x row on the first table is there for this; fade it and write what you changed on the log.

Anything that is a straight line looks proportional

- On graphs and equations the student marks YES for a line that does not start at (0, 0), or for y = kx + b.
- Teach the question: what is y when x is 0? Run the next form.

Misses that cluster on one kind of problem

- Tables are problems 1, 5; graphs are 3, 6; equations are 4, 8; stories are 2, 7. These positions are the same on all six forms.
- Several misses on one kind across two forms: teach that kind with a worked example before more probes.
- Misses spread across all four kinds point to the idea of a constant ratio, not the format.

Graph-it page (page 23): what the two panels show

- Panel A is y = 3x. The table points are (1, 3), (2, 6), (3, 9), (4, 12), (5, 15); the line passes through (0, 0), so it is proportional with k = 3.
- Panel B is y = 2x + 2. The table points are (1, 4), (2, 6), (3, 8), (4, 10), (5, 12); the line is straight but meets the y-axis at 2, so it is not proportional.

The student cannot start

- Do the first problem together, aloud, and let the student do the second.
- Use a table the student fills in with you for the first few weeks; fade it and write what you changed on the log.

This student's scoring rules and notes

PREVIEW

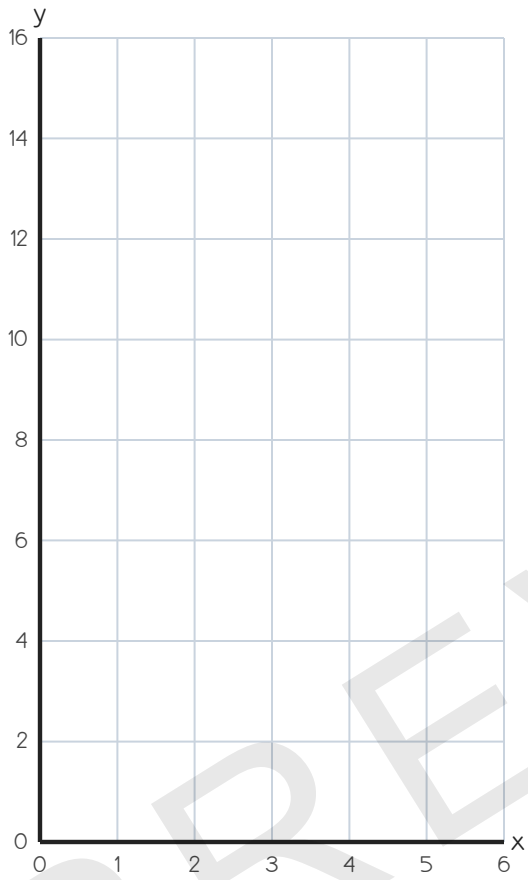
Preview - Bright Path Sped

My name: _____

Plot the points. Draw the line.

A. Plot this table

x	1	2	3	4	5
y	3	6	9	12	15



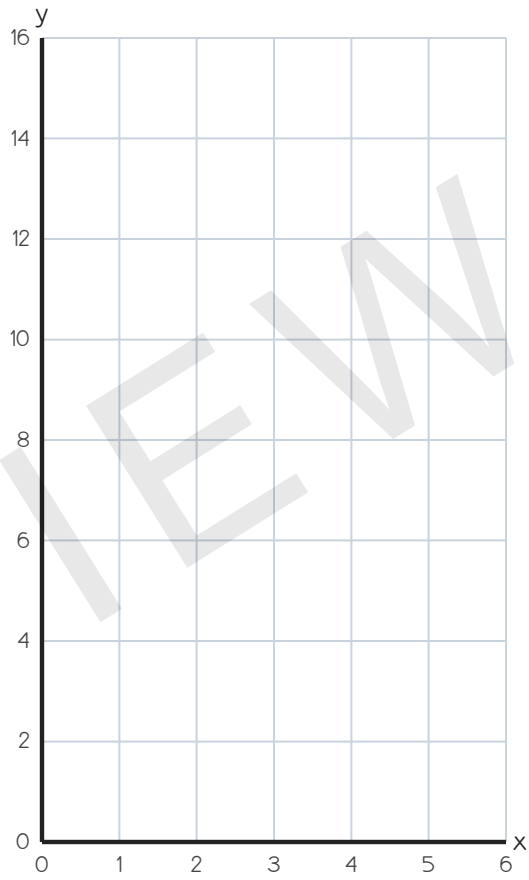
Line through (0, 0)? YES NO

Proportional? YES NO

If YES, k = _____

B. Plot this table

x	1	2	3	4	5
y	4	6	8	10	12



Line through (0, 0)? YES NO

Proportional? YES NO

If YES, k = _____

PREVIEW

Proportional Relationships - Caseload Summary

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

Teacher / case manager _____ Skill _____ Marking period _____

Student	Base	Crit	P1	P2	P3	P4	P5	P6	P7	P8	Trend	Decision

How to fill it

- One row per student on this skill. Baseline is the median of the first three probes.
- One column per weekly probe; write the score out of 8, not a percent.
- Trend: up, flat or down over the last four probes.
- Decision: keep going, change the teaching, or raise the target.
- Leave a cell blank rather than guess; a gap is more honest than a filled-in score.

What it is for

Grouping. 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.

PREVIEW

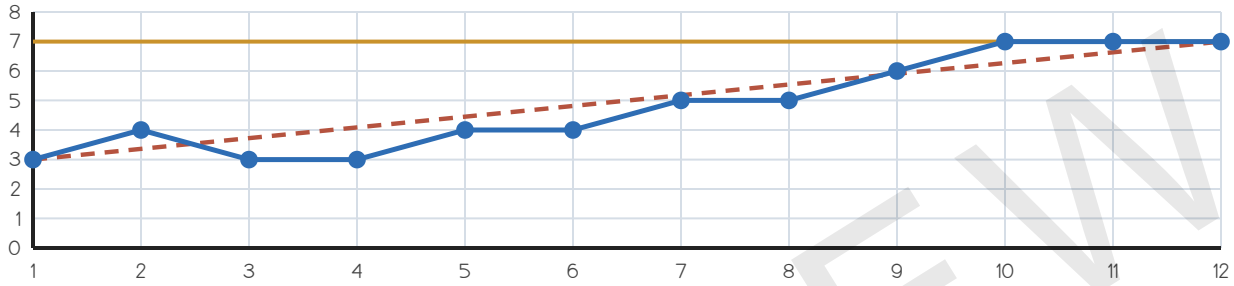
A Filled-In Data Log (Invented Student)

Maya is invented. Twelve weekly probes, the aim line, the change three low points forced, and the criterion being met.

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

By November 20, when given 8 proportional relationships problems (tables, graphs, equations and word problems), Maya will answer 7 of 8 problems correctly on 3 consecutive weekly probes, as measured by teacher-scored proportional relationships probes (forms A–F).

Maya's graph (invented): dots are the weekly scores, dashed is the aim line, gold is the criterion of 7



#	Date	Form	Correct	Errors	Graphed	Notes
1	9/8	A	3	5	3	baseline
2	9/9	B	4	4	4	baseline
3	9/10	C	3	5	3	baseline (median of 3, 4, 3 = 3)
4	9/17	D	3	5	3	named k from one pair only
5	9/24	E	4	4	4	same: one pair, no check
6	10/1	F	4	4	4	3 under the aim line: added a y ÷ x row
7	10/8	A	5	3	5	uses the row on every table
8	10/15	B	5	3	5	graphs now right
9	10/22	C	6	2	6	equations with a + still marked yes
10	10/29	D	7	1	7	criterion score, first time
11	11/5	E	7	1	7	second in a row at 7
12	11/12	F	7	1	7	third in a row: goal met

How to read the log

- Baseline was the median of three forms on three days: 3, 4, 3, so 3. Not the average, not the best.
- The aim line runs from 3 at probe 1 to 7 at probe 12. Probes 4, 5 and 6 (3, 4, 4) sat under it: three in a row, so the teaching changed and the change is written on the row.
- The notes name what the misses looked like: k was read from a single pair and never checked. A score alone would not have said that.
- Criterion was met on probes 10, 11 and 12 (7, 7, 7): three in a row at 7 of 8 or better.

The progress report sentence this log produces

On weekly proportional relationships probes (8 problems, untimed), Maya scored 3 of 8 at baseline and 7, 7 and 7 of 8 on the last three probes, meeting the criterion of 7 of 8 on 3 consecutive probes.

PREVIEW