

# MULTIPLYING & DIVIDING DECIMALS BY A DECIMAL

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

**DECIMAL X DECIMAL** **Multiplying and Dividing Two Decimals – Goal and Directions**

Goal, baseline, directions and benchmarks for one skill. Untimed: score is problems correct out of 10.

Ten decimal multiplication and division problems per form in two labeled columns: five multiply two one-decimal-digit decimals, and five divide a two-decimal divisor by a one-decimal divisor, always exact. Sixty problems across six forms, none repeated or reversed.

**Sample goal — Invented; edit every bracket to fit the student**  
By [annual review date], when given 10 decimal multiplication and division problems (decimals multiplied or divided by a decimal), [Student] will write the correct answer, placing the decimal point correctly, for [8 of 10] problems on [7] consecutive weekly 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: MULTIPLYING AND DIVIDING DECIMALS BY A DECIMAL, FORMS A-F, PAGE 6-10) \_\_\_\_\_

**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 BASILINE) |
|------------------|------------------|------------------|-----------------------|
|                  |                  |                  |                       |
|                  |                  |                  |                       |
|                  |                  |                  |                       |

**Benchmarks toward the goal**

| BENCHMARK | TARGET DATE | TARGET SCORE | ACTUAL SCORE | MET? |
|-----------|-------------|--------------|--------------|------|
|           |             |              |              |      |
|           |             |              |              |      |
|           |             |              |              |      |

**Giving and scoring the probe**

- ☐ Say: "Multiply or divide. Count the decimal places to place the point."
- ☐ Correct: the exact decimal value, including a 0 in the hundredths place.
- ☐ Watch for the point landing in the wrong spot — a specific, nameable error.
- ☐ Untimed. Let the student finish all ten.

**My name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Multiply or divide. Write your answer in the box.**

| Decimal x Decimal |                                         | Decimal ÷ Decimal |                                        |
|-------------------|-----------------------------------------|-------------------|----------------------------------------|
| 1                 | $9.7 \times 7.7 =$ <input type="text"/> | 6                 | $7.98 \div 4.2 =$ <input type="text"/> |
| 2                 | $8.3 \times 4.3 =$ <input type="text"/> | 7                 | $1.08 \div 1.8 =$ <input type="text"/> |
| 3                 | $1.9 \times 1.4 =$ <input type="text"/> | 8                 | $1.92 \div 0.2 =$ <input type="text"/> |
| 4                 | $7.9 \times 9.9 =$ <input type="text"/> | 9                 | $3.99 \div 5.7 =$ <input type="text"/> |
| 5                 |                                         | 10                |                                        |

**DECIMAL X DECIMAL** **Multiplying and Dividing Two Decimals – 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 FIRST, THEN PLOT EACH WEEK**

| WEEK | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|------|---|---|---|---|---|---|---|---|---|----|----|----|
| 1    |   |   |   |   |   |   |   |   |   |    |    |    |
| 2    |   |   |   |   |   |   |   |   |   |    |    |    |
| 3    |   |   |   |   |   |   |   |   |   |    |    |    |
| 4    |   |   |   |   |   |   |   |   |   |    |    |    |
| 5    |   |   |   |   |   |   |   |   |   |    |    |    |
| 6    |   |   |   |   |   |   |   |   |   |    |    |    |
| 7    |   |   |   |   |   |   |   |   |   |    |    |    |
| 8    |   |   |   |   |   |   |   |   |   |    |    |    |
| 9    |   |   |   |   |   |   |   |   |   |    |    |    |
| 10   |   |   |   |   |   |   |   |   |   |    |    |    |
| 11   |   |   |   |   |   |   |   |   |   |    |    |    |
| 12   |   |   |   |   |   |   |   |   |   |    |    |    |

Probe (week)

| DATE | FORM | CORRECT | ERRORS | SCORE USED ON GRAPH | NOTES (CONDITIONS, WHAT WAS REACHED) |
|------|------|---------|--------|---------------------|--------------------------------------|
|      |      |         |        |                     |                                      |
|      |      |         |        |                     |                                      |
|      |      |         |        |                     |                                      |
|      |      |         |        |                     |                                      |
|      |      |         |        |                     |                                      |
|      |      |         |        |                     |                                      |
|      |      |         |        |                     |                                      |
|      |      |         |        |                     |                                      |
|      |      |         |        |                     |                                      |
|      |      |         |        |                     |                                      |

**DECIMAL X DECIMAL** **Multiplying and Dividing Two Decimals – 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 | BASILINE | CRITERION | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | TREND | DECISION THIS MONTH |
|---------|----------|-----------|----|----|----|----|----|----|----|----|-------|---------------------|
|         |          |           |    |    |    |    |    |    |    |    |       |                     |
|         |          |           |    |    |    |    |    |    |    |    |       |                     |
|         |          |           |    |    |    |    |    |    |    |    |       |                     |
|         |          |           |    |    |    |    |    |    |    |    |       |                     |
|         |          |           |    |    |    |    |    |    |    |    |       |                     |
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|         |          |           |    |    |    |    |    |    |    |    |       |                     |
|         |          |           |    |    |    |    |    |    |    |    |       |                     |
|         |          |           |    |    |    |    |    |    |    |    |       |                     |
|         |          |           |    |    |    |    |    |    |    |    |       |                     |
|         |          |           |    |    |    |    |    |    |    |    |       |                     |
|         |          |           |    |    |    |    |    |    |    |    |       |                     |
|         |          |           |    |    |    |    |    |    |    |    |       |                     |
|         |          |           |    |    |    |    |    |    |    |    |       |                     |

**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.

**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 multiplying and dividing decimals by a decimal, 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 decimal multiplication and division problems (decimals multiplied or divided by a decimal), Marcus will write the correct answer, placing the decimal point correctly, for 8 of 10 problems on 3 consecutive weekly probes (Forms A-F).

| #  | DATE  | FORM | CORRECT | ERRORS | GRAPHED | NOTES                                                                                                                                      |
|----|-------|------|---------|--------|---------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 5/8   | A    | 4       | 6      | 4       | baseline                                                                                                                                   |
| 2  | 5/9   | B    | 4       | 6      | 4       | baseline                                                                                                                                   |
| 3  | 5/10  | C    | 5       | 5      | 5       | baseline (median of 4, 4, 5 = 4)                                                                                                           |
| 4  | 5/17  | D    | 4       | 6      | 4       | multiplied the digits correctly but placed the decimal point one place off on most of the Group A items                                    |
| 5  | 5/24  | E    | 3       | 7      | 3       | same pattern                                                                                                                               |
| 6  | 10/1  | F    | 4       | 6      | 4       | 3 under aim line: added a count-the-places check — circle each factor's decimal digits before multiplying; then count them into the answer |
| 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: "multiplied the digits correctly but placed the decimal point one place off on most of the Group A items" 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.

The progress report sentence this log produces

**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 probes.
- ☐ 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 it.
- ☐ 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 criteria in brackets; your team sets the real ones.

**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

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

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- 1 **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.
- 2 **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.
- 3 **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).
- 4 **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.
- 5 **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.
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#### The weekly routine, about five minutes

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- ☐ 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 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.

# Multiplying and Dividing Two Decimals — Goal and Directions

Goal, baseline, directions and benchmarks for one skill. Untimed; score is problems correct out of 10.

Ten decimal multiplication and division problems per form in two labeled columns: five multiply two one-decimal-digit decimals, and five divide a two-decimal dividend by a one-decimal divisor, always exact. Sixty problems across six forms, none repeated or reversed.

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

By [annual review date], when given 10 decimal multiplication and division problems (decimals multiplied or divided by a decimal), [Student] will write the correct answer, placing the decimal point correctly, for [8 of 10] problems on [3] consecutive weekly probes.

### BY (DATE)

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

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

### CRITERION (SCORE OUT OF 10, OR PERCENT)

ON \_\_\_\_ OF \_\_\_\_ CONSECUTIVE PROBES

AS MEASURED BY (THIS PROBE: MULTIPLYING AND DIVIDING DECIMALS BY A DECIMAL, 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: "Multiply or divide. Count the decimal places to place the point."
- ☐ Correct: the exact decimal value, including a 0 in the hundredths place.
- ☐ Watch for the point landing in the wrong spot — a specific, nameable 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: \_\_\_\_\_



Multiply or divide. Write your answer in the box.

Decimal × Decimal

1

$$9.7 \times 7.7 = \boxed{\phantom{000}}$$

2

$$8.3 \times 4.3 = \boxed{\phantom{000}}$$

3

$$1.9 \times 1.4 = \boxed{\phantom{000}}$$

4

$$7.9 \times 9.9 = \boxed{\phantom{000}}$$

5

$$2.9 \times 5.8 = \boxed{\phantom{000}}$$

Decimal ÷ Decimal

6

$$7.98 \div 4.2 = \boxed{\phantom{000}}$$

7

$$1.08 \div 1.8 = \boxed{\phantom{000}}$$

8

$$1.92 \div 0.2 = \boxed{\phantom{000}}$$

9

$$3.99 \div 5.7 = \boxed{\phantom{000}}$$

10

$$2.85 \div 0.3 = \boxed{\phantom{000}}$$

My name: \_\_\_\_\_ Date: \_\_\_\_\_



Multiply or divide. Write your answer in the box.

Decimal × Decimal

1

$$5.7 \times 7.6 = \boxed{\phantom{000}}$$

2

$$5.9 \times 4.6 = \boxed{\phantom{000}}$$

3

$$7.5 \times 2.2 = \boxed{\phantom{000}}$$

4

$$1.3 \times 2.7 = \boxed{\phantom{000}}$$

5

$$2.7 \times 1.1 = \boxed{\phantom{000}}$$

Decimal ÷ Decimal

6

$$1.84 \div 9.2 = \boxed{\phantom{000}}$$

7

$$0.84 \div 1.2 = \boxed{\phantom{000}}$$

8

$$0.35 \div 0.5 = \boxed{\phantom{000}}$$

9

$$7.14 \div 3.4 = \boxed{\phantom{000}}$$

10

$$4.32 \div 7.2 = \boxed{\phantom{000}}$$

# Multiplying and Dividing Two Decimals – Data Log and Graph

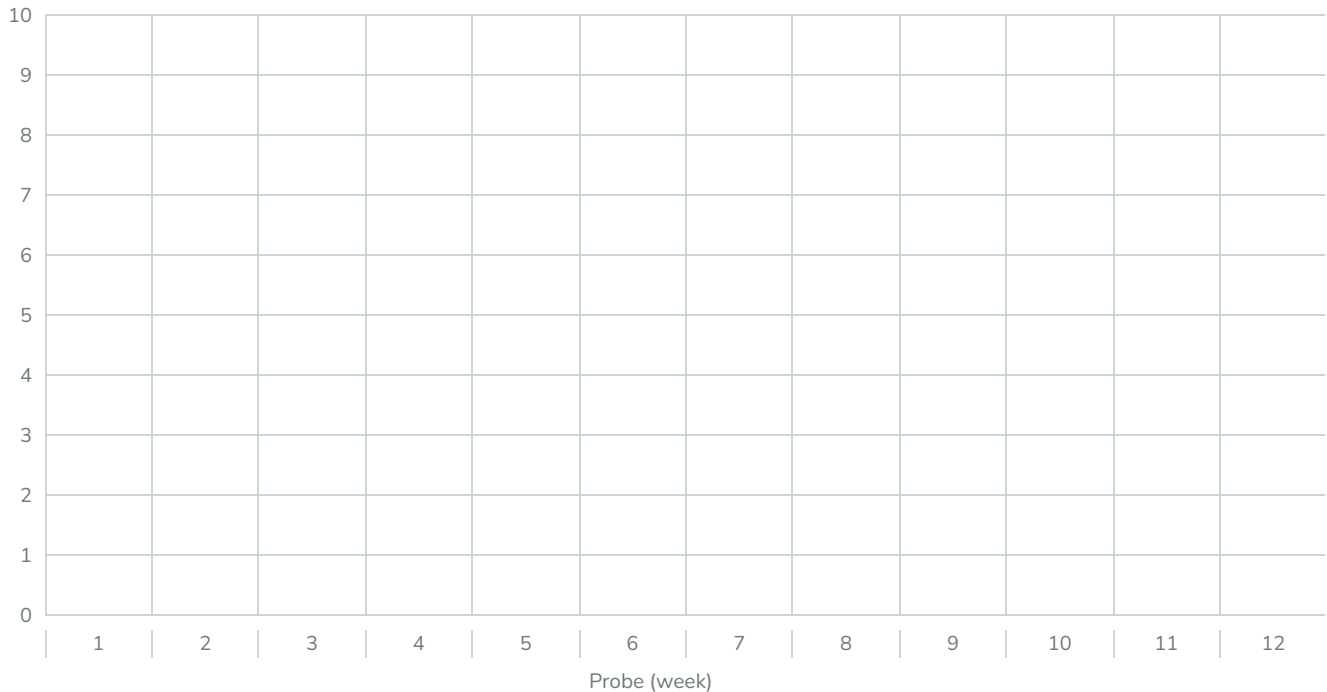
One row per probe. Three points in a row under the aim line is a decision, not a feeling: change the teaching and write what changed in the notes.

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 RETEACHED) |
|---|------|------|---------|--------|---------------------|----------------------------------------|
|   |      |      |         |        |                     |                                        |
|   |      |      |         |        |                     |                                        |
|   |      |      |         |        |                     |                                        |
|   |      |      |         |        |                     |                                        |
|   |      |      |         |        |                     |                                        |
|   |      |      |         |        |                     |                                        |
|   |      |      |         |        |                     |                                        |
|   |      |      |         |        |                     |                                        |
|   |      |      |         |        |                     |                                        |
|   |      |      |         |        |                     |                                        |

# Multiplying and Dividing Two Decimals – 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 | BASELINE | 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 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**

## A Filled-In Data Log (Invented Student)

Marcus is invented. Twelve weekly probes on multiplying and dividing decimals by a decimal, 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 decimal multiplication and division problems (decimals multiplied or divided by a decimal), Marcus will write the correct answer, placing the decimal point correctly, for 8 of 10 problems on 3 consecutive weekly 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       | multiplied the digits correctly but placed the decimal point one place off on most of the Group A items                                     |
| 5  | 9/24  | E    | 3       | 7      | 3       | same pattern                                                                                                                                |
| 6  | 10/1  | F    | 4       | 6      | 4       | 3 under aim line: added a count-the-places check -- circle each factor's decimal digits before multiplying, then count them into the answer |
| 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: “multiplied the digits correctly but placed the decimal point one place off on most of the Group A items” 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.

### The progress report sentence this log produces

*“On weekly multiplying and dividing decimals by a decimal 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.*