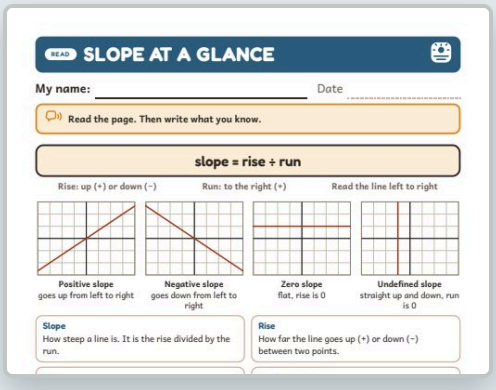
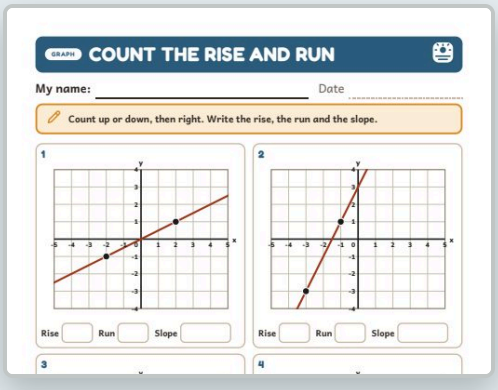
6TH–8TH GRADE · MATH

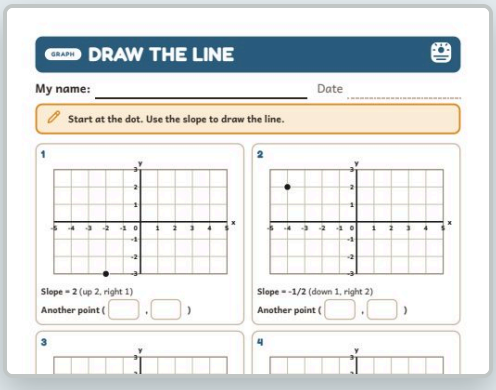
SLOPE

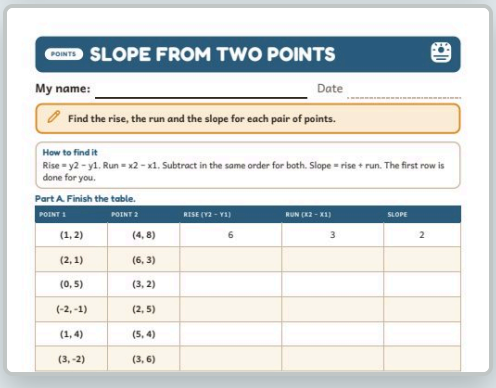
RISE OVER RUN WORKSHEETS

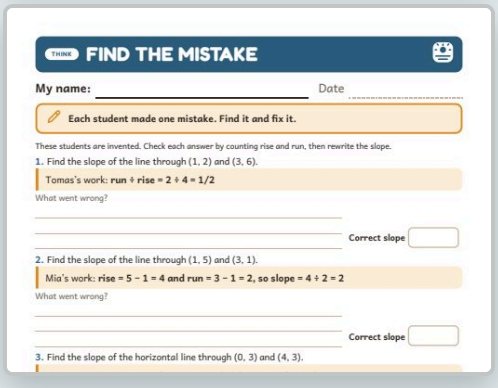
Count the rise and run on graph grids, draw lines from a slope, name positive, negative, zero and undefined slope, find slope from two points, find the mistake and use slope on a ramp. Answer keys, a tracker and a family page. Print, or type your answers. PDF.

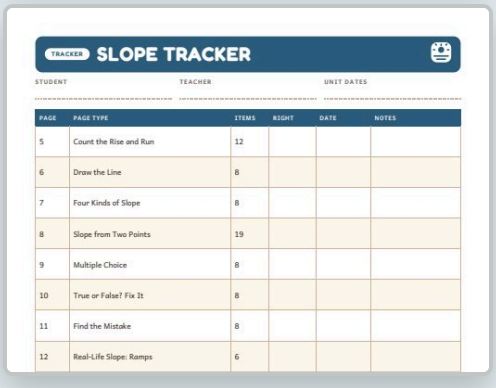












26 Pages | **11 Page Types** | **88 Items** | **3 Answer Keys**

BRIGHT PATH SPED

START HERE

QUICK START

One complete kit for slope as rise over run in grades 6-8. Students count rise and run on graphs, draw lines, name the four kinds of slope, use two points, find a mistake and use slope in a real-life ramp — on pages with room to work.

THREE STEPS

1 Teach or review with the reference page

Page 4 has the formula, four small graphs (positive, negative, zero, undefined), six key words and a place for the student to write what they know. Read it together or hand it out as the first page.

2 Hand over a page

Every student page opens with a name line and one short instruction. Nothing on it is written for you, so the student can start. The graph pages have grids big enough to count and draw on, and the explanations have five or six lines.

3 Check it, record it, send it home

The answer keys are pages 15, 16 and 17. Record each page on the tracker (page 18), roll a group up on page 19, and send the family page (21). A filled example is on page 22.

WHICH PAGE, WHEN

WHEN…	USE…
Introducing or reviewing slope	At a Glance, page 4 · Count the Rise and Run, page 5
Graphing a line from a slope	Draw the Line, page 6
Positive, negative, zero, undefined	Four Kinds of Slope, page 7 · Cut and Paste, page 13
Using the two-point method	Slope from Two Points, page 8
Quick check or exit slip	Multiple Choice, page 9 · True or False? Fix It, page 10
Error analysis and real life	Find the Mistake, page 11 · Real-Life Slope, page 12
Writing about math	Explain It, page 14

Everything inside (26 pages)

- **11 student pages** in 11 page types: a reference page, counting and drawing on grids, four kinds of slope, two points, multiple choice, true or false, find the mistake, real-life ramps, cut and paste and an explain-it page
- **88 scored items** on 10 pages and **19 graph grids**
- **8 cut-and-paste pieces** on one sort mat
- **3 answer keys, 1 tracker, 1 class grid**, 1 team note, 1 family page, 1 filled example, 1 phrase bank, 1 binder cover and 6 divider tabs

Print or type

Every page prints clean in black and white. The name line, answer boxes, blanks and writing lines are type-in fields in any PDF reader: click one, type, then save. This is a fillable PDF, not a slideshow or a word-processor file. The graphs, the drawing and the cut-and-paste sort are for pencil and scissors.

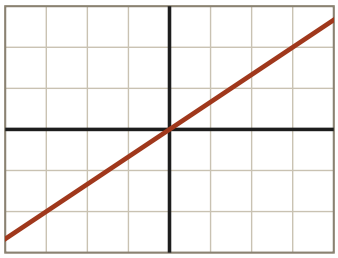
READ SLOPE AT A GLANCE

My name: _____ Date .....

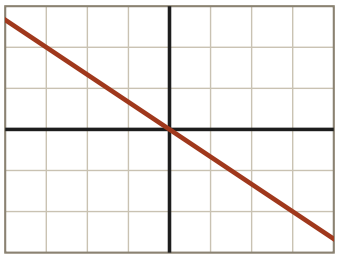
Read the page. Then write what you know.

slope = rise ÷ run

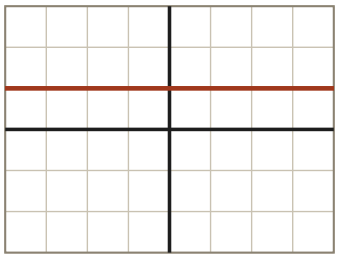
Rise: up (+) or down (−) | Run: to the right (+) | Read the line left to right



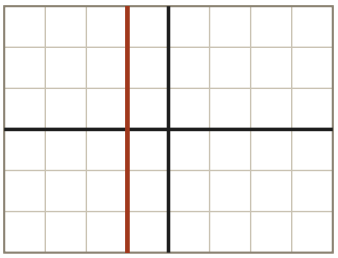
Positive slope
goes up from left to right



Negative slope
goes down from left to right



Zero slope
flat, rise is 0



Undefined slope
straight up and down, run is 0

Slope
How steep a line is. It is the rise divided by the run.

Rise
How far the line goes up (+) or down (−) between two points.

Run
How far the line goes to the right between the same two points.

Positive slope
The line goes up as you read it from left to right.

Negative slope
The line goes down as you read it from left to right.

Zero and undefined
A flat line has slope 0. A straight up-and-down line has an undefined slope.

Your turn. Write what you know.

Slope tells me

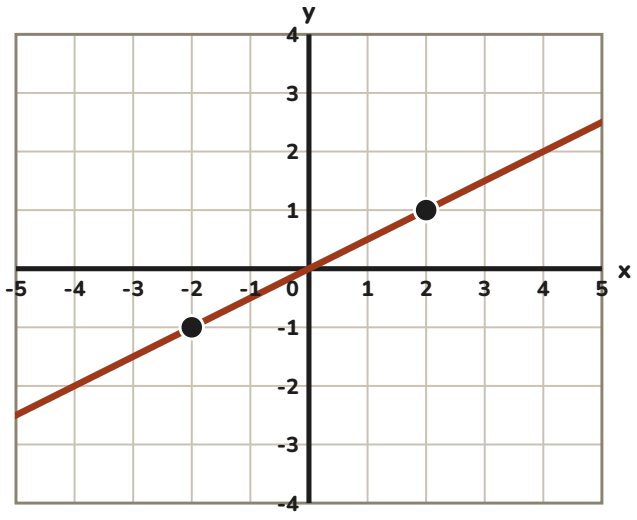
One question I still have about slope

GRAPH COUNT THE RISE AND RUN

My name: _____ Date .....

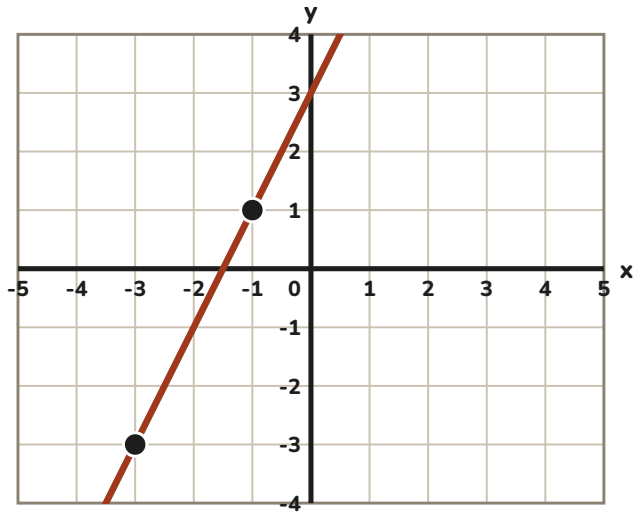
Count up or down, then right. Write the rise, the run and the slope.

1



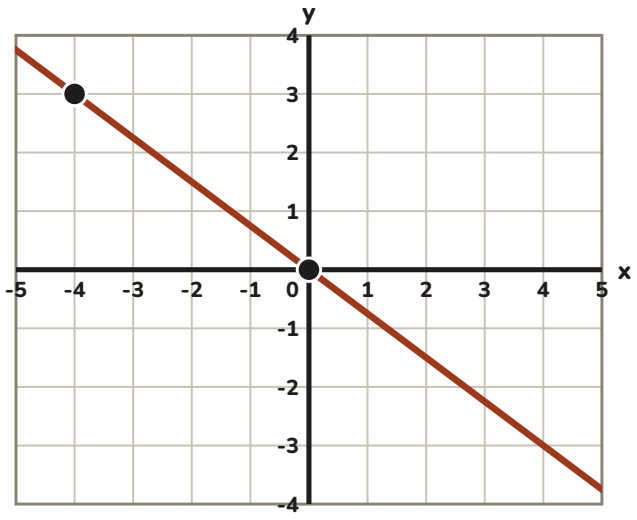
Rise ____ Run ____ Slope ____

2



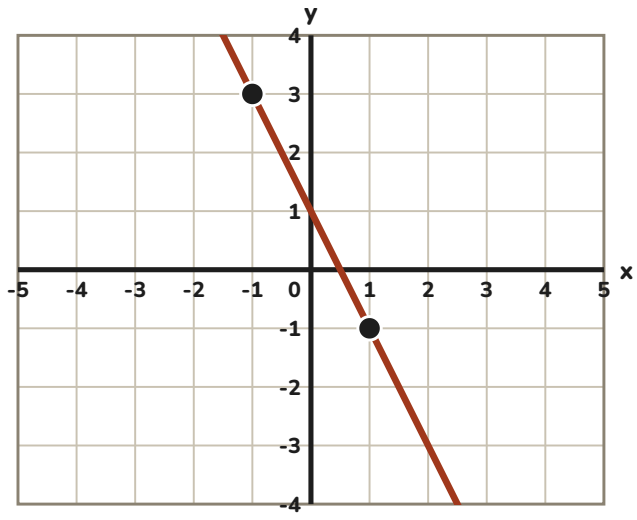
Rise ____ Run ____ Slope ____

3



Rise ____ Run ____ Slope ____

4



Rise ____ Run ____ Slope ____

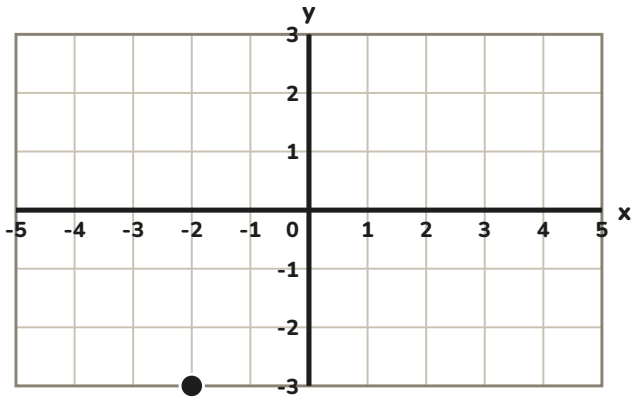
Read each line from left to right. Rise is up (+) or down (−). Write the slope as a fraction in lowest terms.

GRAPH DRAW THE LINE

My name: _____ Date .....

Start at the dot. Use the slope to draw the line.

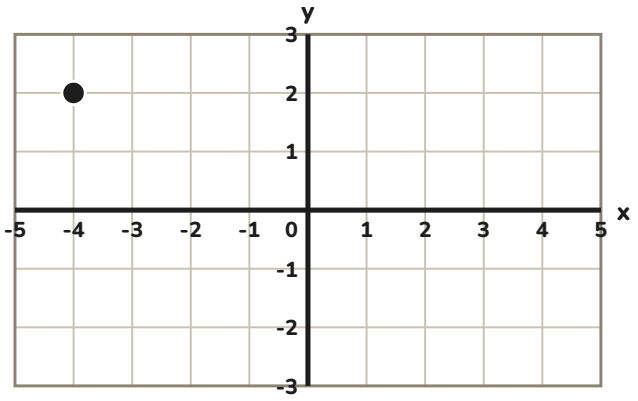
1



Slope = 2 (up 2, right 1)

Another point (☐ , ☐ **)**

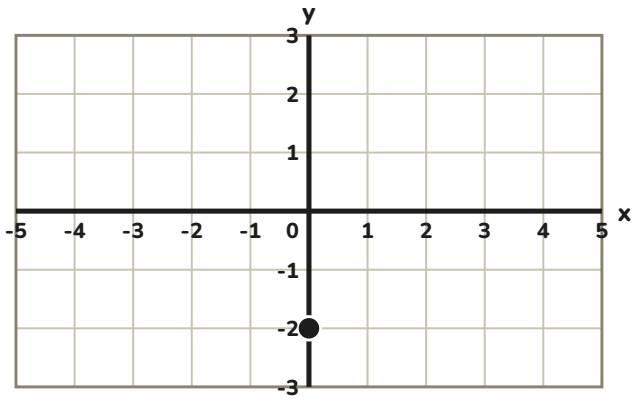
2



Slope = -1/2 (down 1, right 2)

Another point (☐ , ☐ **)**

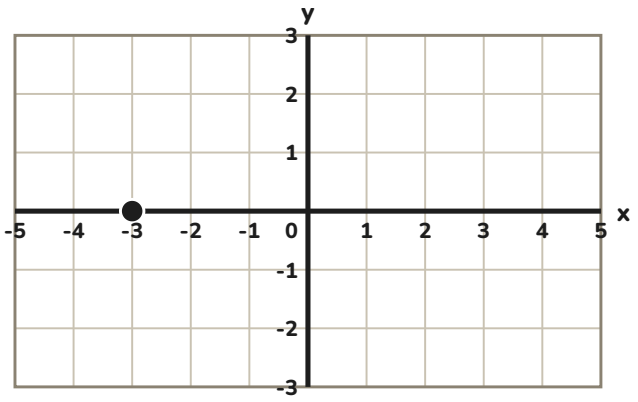
3



Slope = 3/2 (up 3, right 2)

Another point (☐ , ☐ **)**

4



Slope = -2 (down 2, right 1)

Another point (☐ , ☐ **)**

Use a ruler or the edge of a paper. Go the way the slope tells you from the dot, mark a point, then draw the line through both points.

POINTS SLOPE FROM TWO POINTS

My name: _____ Date .....

Find the rise, the run and the slope for each pair of points.

How to find it

Rise = y2 − y1. Run = x2 − x1. Subtract in the same order for both. Slope = rise ÷ run. The first row is done for you.

Part A. Finish the table.

POINT 1	POINT 2	RISE (Y2 − Y1)	RUN (X2 − X1)	SLOPE
(1, 2)	**(4, 8)**	6	3	2
(2, 1)	**(6, 3)**			
(0, 5)	**(3, 2)**			
(-2, -1)	**(2, 5)**			
(1, 4)	**(5, 4)**			
(3, -2)	**(3, 6)**			

Part B. Show your work.

1. Find the slope between (2, 7) and (5, 1).

Slope = ☐

2. Find the slope between (-5, -2) and (-1, 4).

Slope = ☐

3. Find the slope between (-3, 4) and (1, 0).

Slope = ☐

4. Find the slope between (0, -3) and (4, -3).

Slope = ☐

SORT CUT AND PASTE: SORT IT

My name: _____ Date .....

Cut out the pieces. Paste each one in the right box.

Positive slope	Negative slope

Slope of zero	Undefined slope

Cut on the dashed lines.

Rise 0, run 5	Rise −2, run 4	A straight up-and-down line	Rise 3, run 2
The line goes up from left to right	Rise 4, run 0	The line goes down from left to right	A flat, horizontal line

1. Write one sentence that tells how a flat line and a straight up-and-down line are different.

TRACKER

SLOPE TRACKER

STUDENT

TEACHER

UNIT DATES

PAGE	PAGE TYPE	ITEMS	RIGHT	DATE	NOTES
5	Count the Rise and Run	12			
6	Draw the Line	8			
7	Four Kinds of Slope	8			
8	Slope from Two Points	19			
9	Multiple Choice	8			
10	True or False? Fix It	8			
11	Find the Mistake	8			
12	Real-Life Slope: Ramps	6			
13	Cut and Paste: Sort It	8			
14	Explain It	3			

How to fill this in

Write how many items the student got right and the date. A written answer counts as one item when it makes every point in the keys (pages 15, 16 and 17). A blank means not tried yet, never wrong. There are 88 items on the 10 pages above; the reference page (4) is not scored. Filled example: page 22.

STANDARD OR UNIT GOAL (YOUR OWN WORDING)

EXAMPLE JORDAN'S TRACKER

Jordan T. is invented; nothing on this page describes a real student. The blank tracker is on page 18.

STUDENT	TEACHER	UNIT DATES
Jordan T. (an invented student)	**Ms. Reyes (invented)**	**October**

PAGE	PAGE TYPE	ITEMS	RIGHT	DATE	NOTES
5	Count the Rise and Run	12	11	10/12	Flipped rise and run once
6	Draw the Line	8	8	10/13	–
7	Four Kinds of Slope	8	7	10/14	Mixed up zero and undefined
8	Slope from Two Points	19	17	10/15	Sign slips on 2 rows
9	Multiple Choice	8	7	10/16	Missed number 7
10	True or False? Fix It	8	8	10/19	–
11	Find the Mistake	8	–	–	–
12	Real-Life Slope: Ramps	6	–	–	–
13	Cut and Paste: Sort It	8	–	–	–
14	Explain It	3	–	–	–

How to read it

Jordan T. has done **6 of 10** scored pages and got **58 of 63** items right. **2** pages were all right and **5** items were missed across 4 pages. Every number here comes from the table above.

The family note this tracker would produce

"This month Jordan finished 6 pages and got 58 of 63 items right. The next thing to practice is keeping the sign on the slope and telling a flat line from a straight up-and-down one." — every number in it is a row of the table above.

What the table points to

4 pages carry a note and each one is short of full. Pages left blank (4 of them: Find the Mistake, Real-Life Slope, Cut and Paste and Explain It) are not tried yet, never wrong, so they are the next step.

THANK YOU

BEFORE YOU GO

THANK YOU FOR USING THIS RESOURCE

Built for the teacher whose students each need a different amount of support counting, graphing and explaining slope. If this helped, leaving feedback on TPT helps other teachers find it.

Everything inside, one more time

- **11 student pages** in 11 page types, **88 scored items** and **19 graph grids**, every answer recomputed in code from the same points that draw the graphs.
- **8 multiple-choice questions**, **8 true-or-false statements**, **8 cut-and-paste pieces** and **3 answer keys**.
- **1 tracker, 1 class grid, 1 team note, 1 family page, 1 filled example, 1 phrase bank** (15 starters), **1 binder cover** and divider tabs.

No real student anywhere in this file

The filled example on page 22 names "Jordan T.," an invented student used only to show how the tracker fills in. The four students on page 11 and every ramp on page 12 are invented. No table, note or score anywhere in this resource describes a real child, and nothing here is a clinical judgment, an eligibility timeline, or a medical claim of any kind. Once you fill in a real student's name, the tracker, class grid and team note (pages 18, 19 and 20) do carry real information — keep completed pages secure the same way you would any other record.

Something missing or wrong?

Please use the **Ask a Question** tab on the product page first — every question is read, and a fix to the file is a free update you re-download from **My Purchases**.

WHAT'S NEXT FROM THIS STORE

More math practice for the same classroom, including lower-grade sets for students who need them.



Equivalent Fractions Worksheets
Shade, match and fill in, with a number-line page, 3rd-4th grade.



Fractions on a Number Line Worksheets
Halves to eighths on a number line, a lower-grade math set, 3rd grade.



Literal Equations Progress Monitoring Probes
Algebra probes with a goal data sheet, for grades 8 and up.

Click **Follow** on the store page and TPT will email you when new products go up.

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