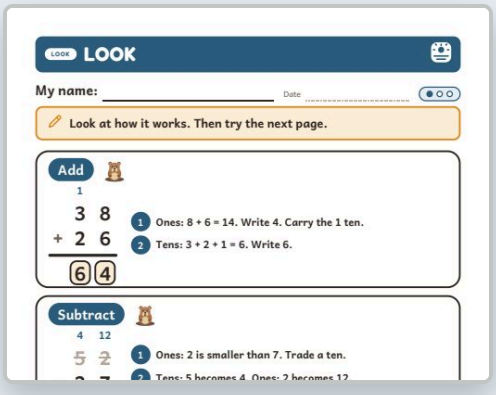
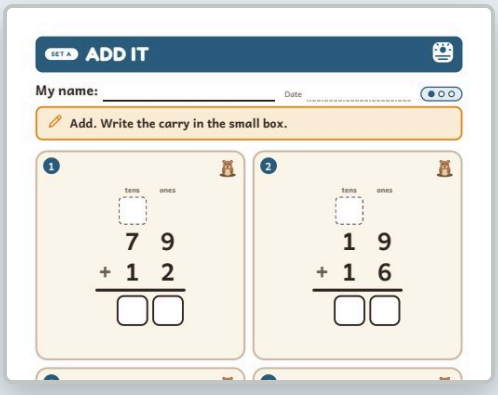
2ND–3RD · MATH

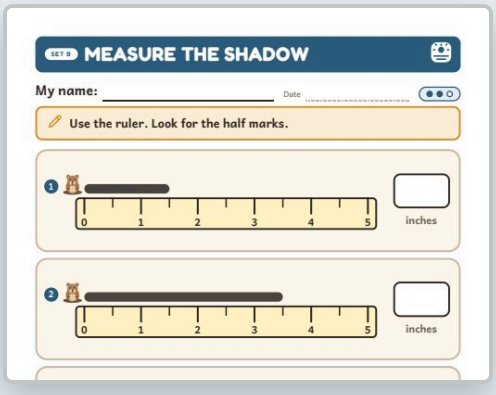
CARRY. TRADE. MEASURE.

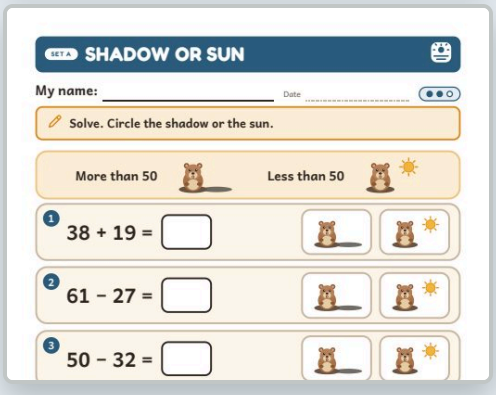
GROUNDHOG DAY MATH

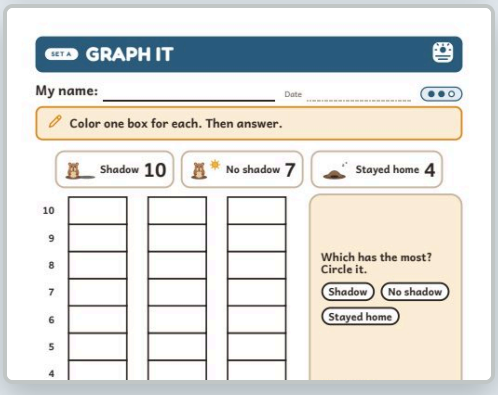
Two-digit adding and subtracting with regrouping, shadows to measure and draw on a true-size ruler, word problems, a tally and graph, secret words, and cut and glue. Keys and tracker included. Print, or type the answers. PDF.

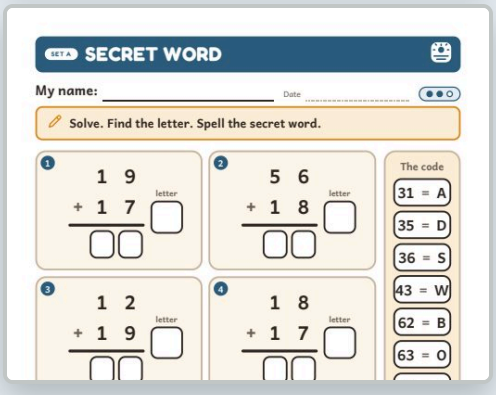












36 Pages | **50 Problems** | **18 Shadows** | **Answer Keys**

BRIGHT PATH SPED

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PREVIEW

HOW IT WORKS

HOW TO READ A PAGE

THE PARTS OF A PAGE

The answer box
A big box, at least 0.5 in tall, for a child's handwriting. Click one to type in it, or print and write.

The printed box
A shaded box is already filled in, like the answer on the Look page.

The small dashed box
Where a child writes a carry or a trade on the first Add It and Subtract It pages.

The cut line
Cut and Glue has six pieces in a 3 by 2 block: three straight cuts, no gaps, no piece smaller than 1.1 inches on a side.

THE 11 PAGE TYPES

PAGE TYPE	WHAT IT LOOKS LIKE	WHAT THE CHILD DOES
Look	three worked examples	Read it together, then try. 1 dot.
Add It / Subtract It	stacks of boxes	Carry or trade a ten. A has small boxes to help; B has none. 1 or 2 dots.
Shadow or Sun	6 mixed problems	Solve, then circle the shadow (more than 50) or the sun. 2 dots.
Measure the Shadow	a ruler under a shadow	A: whole inches. B: half inches. C: two shadows, how much longer. 1 to 3 dots.
Draw the Shadow	an empty bar and a ruler	Draw a shadow of the length given. 3 dots.
Word Problems	a story and a work box	Two stories a page, a 1.5-inch work box under each. 2 or 3 dots.
Tally It / Graph It	tally marks, a bar graph	Count, compare, color the boxes, answer. 1 or 2 dots.
Secret Word	6 problems and a code	Solve, find the letter, spell the word. 2 or 3 dots.
Cut and Glue	6 pieces, 3 cuts	Answers cut out and glued on the problems. 2 or 3 dots.

Print at 100 percent

The rulers are drawn at true size: one inch on the page is one inch on your ruler. Print at 100 percent (not "fit to page"), and hold a real ruler against one of the printed rulers to check. If your printer shrinks the page, the answer keys for Measure and Draw the Shadow will not match.

The dots at the top right

One dot: starting (small boxes to help, whole inches). Two dots: building (no helper boxes, half inches). Three dots: ready for more (comparing and drawing lengths, two-step stories, a harder code). Dots, not words, so children do not compare pages.

Printing and the type-in fields

Every page prints clean in black and white. The name line and every answer box are type-in fields in any PDF reader: click one, type, then save. Circling, coloring the graph, drawing a shadow and the cut pieces are made to print. This is a fillable PDF, not a slideshow or a word-processor file.

Untimed on purpose

Nothing here has a timer or a score on the page. If your team wants a timed check for an IEP goal, that is a separate kind of page; this file is for teaching and practice. Write your own wording for what counts as done on the tracker (page 28).

PREVIEW

SET A ADD IT

My name: _____ Date .....

Add. Write the carry in the small box.

1

tens	ones
7	9
+ 1	2

2

tens	ones
1	9
+ 1	6

3

tens	ones
1	7
+ 5	9

4

tens	ones
2	9
+ 5	1

PREVIEW

SET A SUBTRACT IT

My name: _____ Date .....

Subtract. Trade a ten in the small boxes.

1

tens	ones
5	1
− 2	4

2

tens	ones
9	0
− 3	6

3

tens	ones
4	2
− 1	7

4

tens	ones
4	2
− 2	4

PREVIEW

SET A SHADOW OR SUN

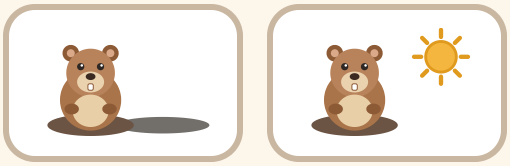
My name: _____ Date .....

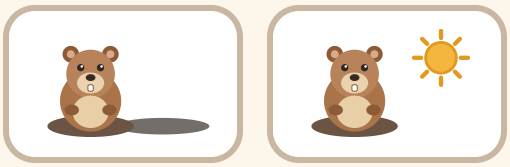
Solve. Circle the shadow or the sun.

More than 50  Less than 50 

1. 38 + 19 = ☐ 

2. 61 − 27 = ☐ 

3. 50 − 32 = ☐ 

4. 34 + 56 = ☐ 

5. 38 + 29 = ☐ 

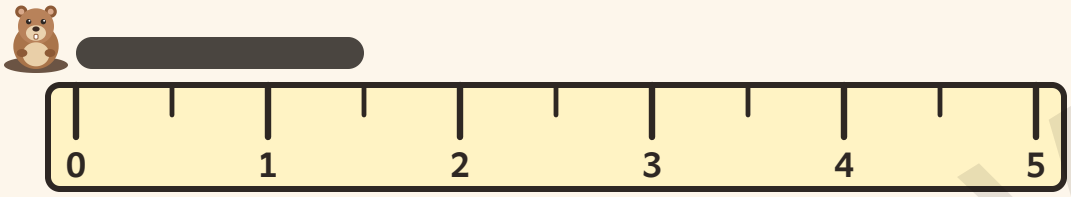
6. 52 − 17 = ☐ 

PREVIEW

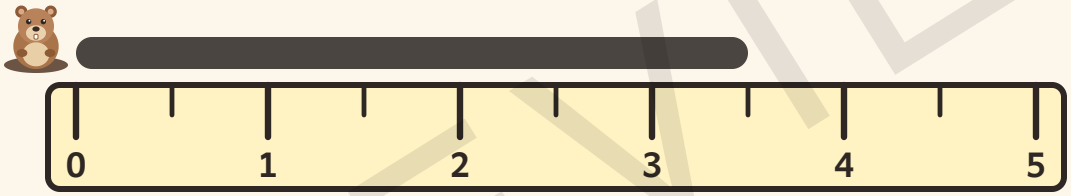
SET B MEASURE THE SHADOW

My name: _____ Date .....

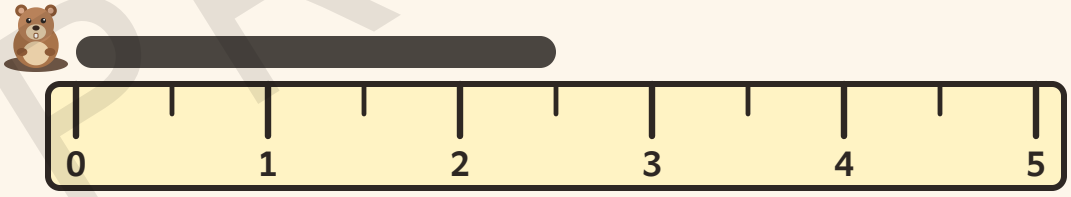
Use the ruler. Look for the half marks.

1 

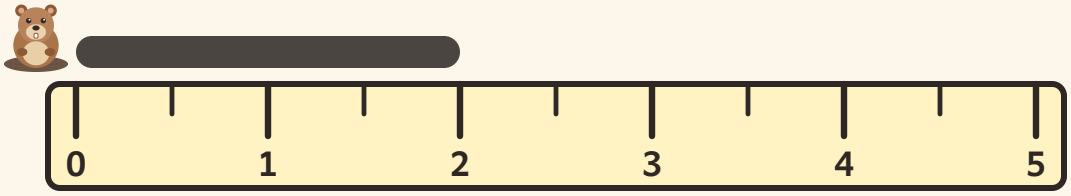
inches

2 

inches

3 

inches

4 

inches

PREVIEW

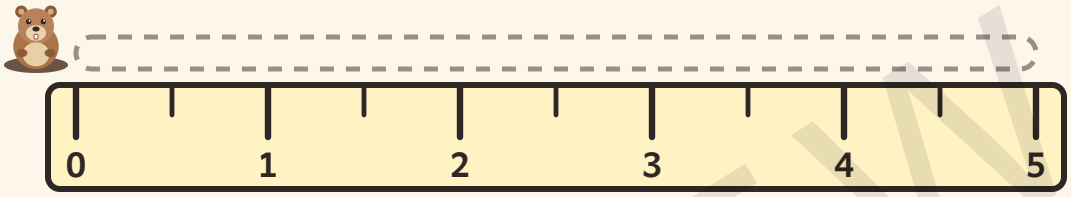
SET A DRAW THE SHADOW

My name: _____ Date .....

Use the ruler. Draw each shadow.

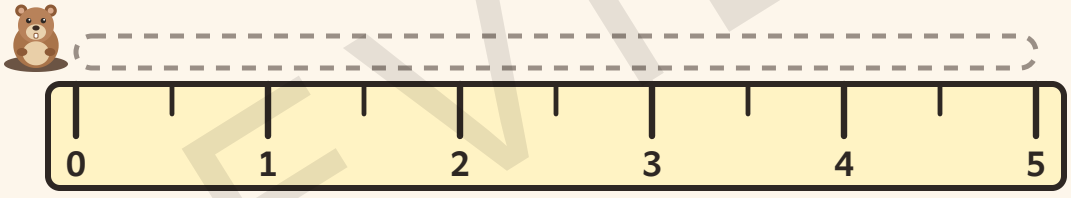
1

4 ½ inches



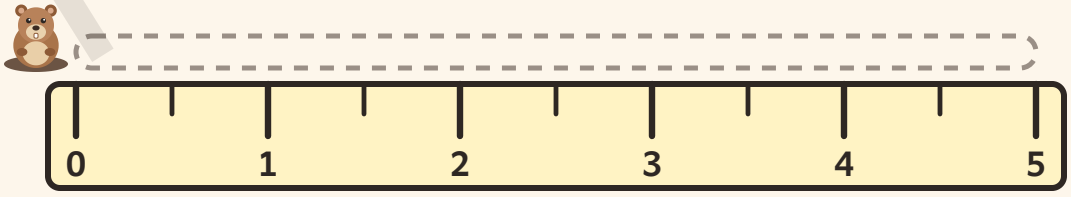
2

5 inches



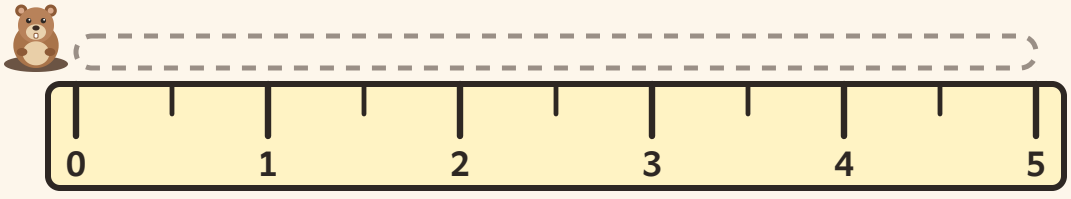
3

4 inches



4

3 inches



PREVIEW

SET B WORD PROBLEMS

My name: _____ Date .....

Read the story. Show your work. Write the answer.

1 **The class made 70 paper shadows. 26 of them are on the wall. How many paper shadows are not on the wall yet?**

Show your work.

Answer: ☐☐ shadows

2 **A bakery had 70 groundhog cookies. Omar's class bought 44 cookies. How many cookies are left?**

Show your work.

Answer: ☐☐ cookies

PREVIEW

SET A TALLY IT

My name: _____ Date .....

Count the tally marks. Write how many.

Groundhog Town is pretend. A groundhog came out on these mornings.



Shadow

𝍸 𝍸 ||

how many



No shadow

𝍸 ||||

how many

Which has more? Circle it. Shadow No shadow

How many more?

How many mornings in all?

PREVIEW

SET A SECRET WORD

My name: _____ Date .....

Solve. Find the letter. Spell the secret word.

1

$$\begin{array}{r} 1\ 9 \\ +\ 1\ 7 \\ \hline \square\square \end{array}$$ letter ☐

2

$$\begin{array}{r} 5\ 6 \\ +\ 1\ 8 \\ \hline \square\square \end{array}$$ letter ☐

3

$$\begin{array}{r} 1\ 2 \\ +\ 1\ 9 \\ \hline \square\square \end{array}$$ letter ☐

4

$$\begin{array}{r} 1\ 8 \\ +\ 1\ 7 \\ \hline \square\square \end{array}$$ letter ☐

5

$$\begin{array}{r} 2\ 8 \\ +\ 3\ 5 \\ \hline \square\square \end{array}$$ letter ☐

6

$$\begin{array}{r} 2\ 4 \\ +\ 1\ 9 \\ \hline \square\square \end{array}$$ letter ☐

The code

- 31 = A
- 35 = D
- 36 = S
- 43 = W
- 62 = B
- 63 = O
- 71 = U
- 74 = H
- 80 = G

Secret word: ☐ ☐ ☐ ☐ ☐ ☐

PREVIEW

SET A CUT AND GLUE

My name: _____ Date .....

Cut out the answers. Glue each one on its problem.

1. 16 + 17 = ____
2. 27 + 37 = ____
3. 57 + 13 = ____
4. 56 + 24 = ____
5. 17 + 44 = ____
6. 77 + 15 = ____

Cut on the dashed lines.

92	70	61
33	80	64

PREVIEW

ANSWER KEY KEY: ADD, SUBTRACT, MIX

Items are numbered the way they are printed on each page.

Add It pages 6, 7

ITEM	PROBLEM	ANSWER
A-1	79 + 12	**91**
A-2	19 + 16	**35**
A-3	17 + 59	**76**
A-4	29 + 51	**80**
B-1	19 + 21	**40**
B-2	38 + 15	**53**
B-3	47 + 29	**76**
B-4	66 + 29	**95**
B-5	47 + 23	**70**
B-6	15 + 27	**42**

Subtract It pages 8, 9

ITEM	PROBLEM	ANSWER
A-1	51 − 24	**27**
A-2	90 − 36	**54**
A-3	42 − 17	**25**
A-4	42 − 24	**18**
B-1	54 − 28	**26**
B-2	87 − 58	**29**
B-3	91 − 68	**23**
B-4	60 − 18	**42**
B-5	82 − 68	**14**
B-6	74 − 36	**38**

Shadow or Sun page 10 (more than 50: shadow; less than 50: sun)

ITEM	PROBLEM	ANSWER	CIRCLE
1	38 + 19	**57**	shadow
2	61 − 27	**34**	sun
3	50 − 32	**18**	sun
4	34 + 56	**90**	shadow
5	38 + 29	**67**	shadow
6	52 − 17	**35**	sun

Watch for

- **Forgetting the carry.** On the add pages every problem carries once; the ten goes over the tens.
- **Taking the small digit from the big one.** On the subtract pages the top ones digit is smaller, so a ten is traded.
- On Subtract It B, a top number that ends in 0 trades too (the 0 becomes 10).
- No answer on Shadow or Sun is exactly 50, so there is one right circle for each.

PREVIEW

ANSWER KEY KEY: TALLY, GRAPH, GLUE

Items are numbered the way they are printed on each page.

Tally It page 18

QUESTION	ANSWER
Shadow	**12**
No shadow	**9**
Which has more	Shadow
How many more	**3**
Mornings in all	**21**

Graph It page 19

QUESTION	ANSWER
Shadow bar	color **10** boxes
No shadow bar	color **7** boxes
Stayed home bar	color **4** boxes
Has the most	Shadow
How many more shadow than stayed home	**6**
How many in all	**21**

Cut and Glue A page 22

CELL	PROBLEM	GLUE
1	16 + 17	**33**
2	27 + 37	**64**
3	57 + 13	**70**
4	56 + 24	**80**
5	17 + 44	**61**
6	77 + 15	**92**

Cut and Glue B page 23

CELL	PROBLEM	GLUE
1	57 − 29	**28**
2	81 − 47	**34**
3	92 − 48	**44**
4	72 − 25	**47**
5	70 − 19	**51**
6	93 − 18	**75**

Where the cut pieces sit

On both Cut and Glue pages no piece sits directly under its own cell in the cut grid, so cutting straight across and gluing straight down never gives the answer (checked in code). On each page the six answers are all different.

PREVIEW

TRACKER

SHADOW MATH TRACKER

STUDENT _____ TEACHER _____ MONTH _____

PAGE	PAGE TYPE AND SET	ITEMS	RIGHT	DATE	NOTES
6	Add It A	4			
7	Add It B	6			
8	Subtract It A	4			
9	Subtract It B	6			
10	Shadow or Sun A	6			
11	Measure the Shadow A	4			
12	Measure the Shadow B	4			
13	Measure the Shadow C	3			
14	Draw the Shadow A	4			
15	Word Problems A	2			
16	Word Problems B	2			
17	Word Problems C	2			
18	Tally It A	5			
19	Graph It A	6			
20	Secret Word A	6			
21	Secret Word B	6			
22	Cut and Glue A	6			
23	Cut and Glue B	6			

PREVIEW

How to fill this in

Write how many items the child got right with no prompt, and the date. A blank means not tried yet, never wrong. There are 82 items on the 18 pages above; Look (page 5) is not scored. On Measure C an item is one pair; on a Cut and Glue page an item is one piece in the right place. Answer keys: pages 24 to 27. Filled example: page 32.

THIS MONTH WE ARE WORKING ON (YOUR OWN WORDING)

TEAM NOTE

PROGRESS NOTE

STUDENT _____ TEAM MEMBER _____ DATE _____

Use this page between team meetings to hand off what changed without writing a note from scratch. Everything below is observable, with a blank for the number or the wording your team already uses.

PAGE TYPES COVERED SINCE THE LAST NOTE

PAGE TYPE	COVERED SINCE LAST NOTE (Y/N)	ITEMS RIGHT	STILL BLANK
Look			
Add It			
Subtract It			
Shadow or Sun			
Measure the Shadow			
Draw the Shadow			
Word Problems			
Tally It			
Graph It			
Secret Word			
Cut and Glue			

What I saw (observable, not a conclusion)

- Carried or traded a ten correctly on ___ of ___ items on ___ (page type), on ___ (date).
- Lined up the ruler at 0 and read the end of the shadow correctly on ___ of ___ items.
- Read a half inch correctly on ___ of ___ items.
- Chose the operation in a story correctly on ___ of ___ stories.
- Needed a model / a verbal prompt / the Look page on ___ of ___ items.

Next step

- Next page type or set: ___, because ___ (what you saw).
- What to try at home or in another setting: ___.
- What to keep doing because it is working: ___.
- Anything for the team meeting to decide: ___ (this page records what happened, never a label or a plan).

SUMMARY, IN ONE OR TWO SENTENCES, FOR WHOEVER READS THIS NEXT

A filled-in line, for reference

"Carried the ten correctly on 4 of 4 items on Add It A on 1/6. Next step: Add It B, where there are no small boxes." That is the level of detail this page is built for. It matches the filled example on page 32.

PREVIEW

EXAMPLE DANI'S TRACKER

Dani K. is invented; nothing on this page describes a real student. The blank tracker is on page 28.

STUDENT	TEACHER	MONTH
Dani K. (an invented student)	**Ms. Rivera (invented)**	**January**

PAGE	PAGE TYPE AND SET	ITEMS	RIGHT	DATE	NOTES
6	Add It A	4	4	1/6	–
7	Add It B	6	6	1/8	–
8	Subtract It A	4	3	1/12	Did not trade a ten once
9	Subtract It B	6	5	1/14	Did not trade when the top ones digit was 0
10	Shadow or Sun A	6	–	–	–
11	Measure the Shadow A	4	4	1/20	–
12	Measure the Shadow B	4	3	1/22	Read a half mark as a whole inch once
13	Measure the Shadow C	3	–	–	–
14	Draw the Shadow A	4	–	–	–
15	Word Problems A	2	2	1/26	–
16	Word Problems B	2	1	1/28	Added instead of subtracting once
17	Word Problems C	2	–	–	–
18	Tally It A	5	–	–	–
19	Graph It A	6	6	1/30	–
20	Secret Word A	6	–	–	–
21	Secret Word B	6	–	–	–
22	Cut and Glue A	6	6	2/2	–
23	Cut and Glue B	6	–	–	–

PREVIEW

How to read it

Dani K. has done **10 of 18** scored pages and got **40 of 44** items right with no prompt. **6** pages were all right. Every number here comes from the table above.

The family note this tracker would produce

"This month Dani finished 10 math pages and got 40 of 44 items right. Remembering to trade a ten when the top ones digit is smaller is next." — every fact in it is a row of the table above.

What the table points to

Every page with a note is one item short of full: Subtract It A, Subtract It B, Measure the Shadow B, Word Problems B. Two of the 4 slips are trades, so Subtract It with the small boxes is the next page to repeat; the notes on the other rows say what to watch for. Pages left blank (8 of 18) are not tried yet, never wrong.

ORGANIZER

BINDER COVER

Slide this into the front of a binder. The divider tabs and a spine label to cut out are on the next page.

MATH · 2ND AND 3RD GRADE

GROUNDHOG DAY MATH



TEACHER

CLASS OR STUDENT

PREVIEW