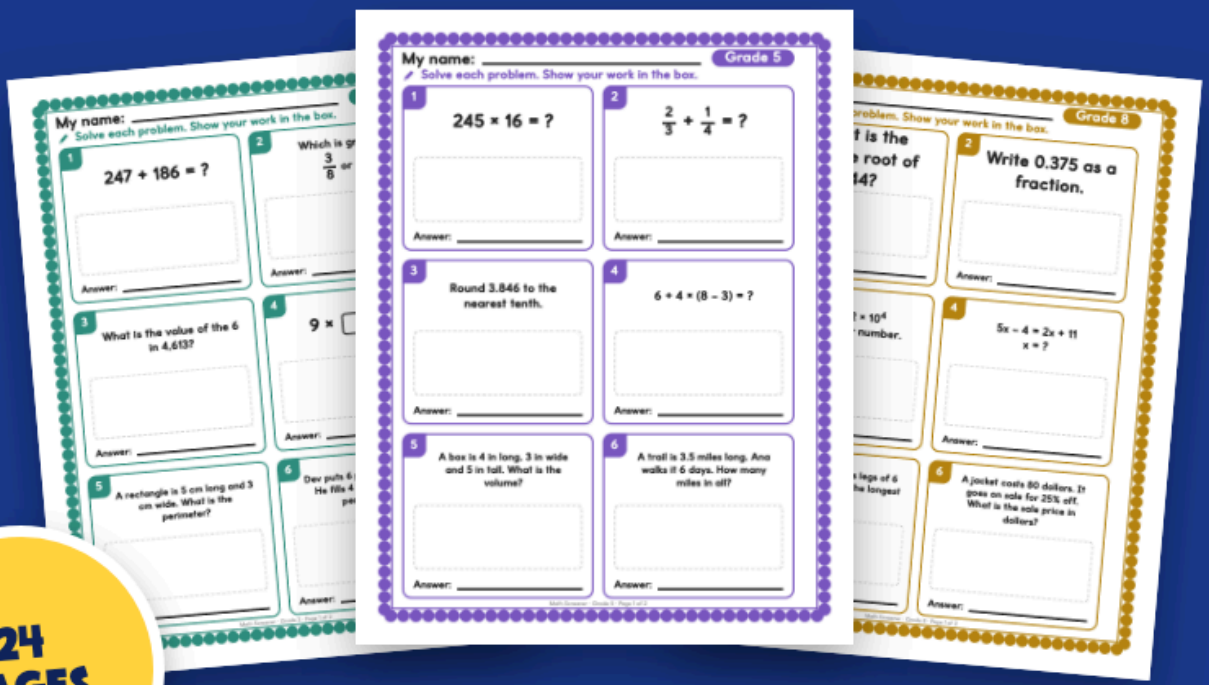
6 × 7

MATH SCREENER

$\frac{5}{8} + \frac{1}{4}$

GRADES 3–8: 12 PROBLEMS PER GRADE



24 PAGES

Bright Path Sped

Terms of Use

Please read before you print the first grade page.

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.

Print and type

- The student pages are for printing: one copy of the grade page per student.
- The score sheet, class record, answer-key marks and family note are fillable: open the PDF in a reader (Adobe Acrobat Reader, Preview, or your browser), click a line or box, and type.
- It works offline. No account, no subscription, no internet connection needed after you download it.

What this is, and is not

This is a classroom check for planning teaching. It is not a standardized test, it has no norms and no cut scores, and it does not decide eligibility for anything. Your district's own rules for what a score means go on the blank lines in this file.

Student data

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

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PREVIEW

Skills Each Grade Screens

Six skill areas, two problems each, the same areas in every grade so one score sheet works for all.

Grade	Computation	Fractions, decimals	Place value, number sense	Equations, expressions	Measurement, geometry	Word problems
3	3-digit addition 3-digit subtraction	compare fractions, same bottom fraction of a set	value of a digit rounding to the nearest ten	missing factor missing divisor	perimeter area	multiplication word problem division word problem
4	4-digit addition 2-digit by 2-digit multiplication	equivalent fractions compare decimals	write a number from parts rounding to the nearest hundred	missing factor missing number, subtraction	area perimeter	division, what to do with the rest two-step word problem
5	3-digit by 2-digit multiplication division, 3-digit by 2-digit	add fractions, unlike bottoms subtract a decimal	round a decimal value of a decimal digit	order of operations equation with parentheses	volume of a box area with decimals	decimal word problem fraction word problem
6	decimal multiplication decimal division	divide fractions add mixed numbers	percent of a number add integers	one-step equation evaluate an expression	area of a triangle volume of a cube	ratio word problem rate word problem
7	subtract integers multiply integers	add fractions, negative multiply a decimal by a negative	percent of a number proportion	two-step equation combine like terms	angles on a line circumference	unit rate probability
8	square root multiply powers	decimal to fraction divide fractions, negative	scientific notation compare irrational numbers	equation, variables both sides equation with parentheses	Pythagorean theorem slope from two points	percent decrease linear word problem

PREVIEW

How to read it

- Each row is one grade page; each cell lists its two problems for that area.
- The problems are original and use plain skill names. They are not taken from any published test.

Use it to choose a grade page

- Look across a row to see what that grade page asks.
- A student working below grade can take a lower grade page. Write which page was used on the score sheet.
- Your district's rule for choosing a page: _____

Preview · Bright Path Sped

My name: _____

Grade 3

Solve each problem. Show your work in the box.

1

$247 + 186 = ?$

Answer: _____

2

Which is greater?

$\frac{3}{8}$ or $\frac{5}{8}$

Answer: _____

3

What is the value of the 6 in 4,613?

Answer: _____

4

$9 \times \square = 63$

Answer: _____

5

A rectangle is 5 cm long and 3 cm wide. What is the perimeter?

Answer: _____

6

Dev puts 6 pencils in each box. He fills 4 boxes. How many pencils is that?

Answer: _____

PREVIEW

Preview · Bright Path Sped

My name: _____

Grade 4

Solve each problem. Show your work in the box.

1

$4{,}826 + 3{,}597 = ?$

Answer: _____

2

$\frac{2}{3} = \frac{\square}{12}$

Answer: _____

3

Write the number:
30,000 + 500 + 7

Answer: _____

4

$7 \times \square = 91$

Answer: _____

5

A rectangle is 9 in long and 6 in wide. What is the area?

Answer: _____

6

A bus holds 7 students. 59 students go on a trip. How many buses are needed?

Answer: _____

PREVIEW

Preview · Bright Path Sped

My name: _____

Grade 5

Solve each problem. Show your work in the box.

7

$936 \div 12 = ?$

Answer: _____

8

$10 - 3.46 = ?$

Answer: _____

9

In 4.06, what is the value of the 6?

Answer: _____

10

$2 \times (n + 3) = 18$

$n = ?$

Answer: _____

11

A rectangle is 2.5 m long and 4 m wide. What is the area?

Answer: _____

12

A recipe needs 3/4 cup of milk. Sam makes 3 batches. How much milk does he use?

Answer: _____

PREVIEW

My name: _____

Grade 6

Solve each problem. Show your work in the box.

7

$7.2 \div 0.9 = ?$

Answer: _____

8

$2\frac{1}{2} + 1\frac{3}{4} = ?$

Answer: _____

9

$-8 + 5 = ?$

Answer: _____

10

Find 3a + 2 when a = 7.

Answer: _____

11

A cube has an edge of 4 cm. What is its volume?

Answer: _____

12

Marta reads 90 pages in 3 days. She reads at the same pace. How many pages does she read in 5 days?

Answer: _____

PREVIEW

Preview · Bright Path Sped

My name: _____

Grade 7

Solve each problem. Show your work in the box.

7

$(-6) \times (-7) = ?$

Answer: _____

8

$2.5 \times (-4) = ?$

Answer: _____

9

$$\frac{3}{8} = \frac{x}{40}$$

$x = ?$

Answer: _____

10

Simplify:

$5x + 3 + 2x - 1$

Answer: _____

11

A circle has a radius of 5 cm. Use 3.14 for pi. What is the circumference?

Answer: _____

12

A bag holds 4 red and 6 blue marbles. You pick one without looking. What is the chance it is red?

Answer: _____

PREVIEW

Answer Key: Grades 3, 4 and 5

Problems 1–6 are on the first student page, 7–12 on the second. Type R or W in the last column (R/W).

Grade 3

#	Skill	Answer	R/W
1	3-digit addition	433	
2	compare fractions, same bottom	5/8	
3	value of a digit	600	
4	missing factor	7	
5	perimeter	16 cm	
6	multiplication word problem	24	
7	3-digit subtraction	224	
8	fraction of a set	3	
9	rounding to the nearest ten	470	
10	missing divisor	9	
11	area	24 square units	
12	division word problem	7	

Total right ___ / 12

Grade 4

#	Skill	Answer	R/W
1	4-digit addition	8,423	
2	equivalent fractions	8	
3	write a number from parts	30,507	
4	missing factor	13	
5	area	54 square in	
6	division, what to do with the rest	9	
7	2-digit by 2-digit multiplication	322	
8	compare decimals	0.7	
9	rounding to the nearest hundred	4,400	
10	missing number, subtraction	505	
11	perimeter	38 ft	
12	two-step word problem	21	

Total right ___ / 12

Grade 5

#	Skill	Answer	R/W
1	3-digit by 2-digit multiplication	3,920	
2	add fractions, unlike bottoms	11/12	
3	round a decimal	3.8	
4	order of operations	26	
5	volume of a box	60 cubic in	
6	decimal word problem	21 miles	
7	division, 3-digit by 2-digit	78	
8	subtract a decimal	6.54	
9	value of a decimal digit	0.06	
10	equation with parentheses	6	
11	area with decimals	10 square m	
12	fraction word problem	2 1/4 cups	

Total right ___ / 12

Scoring reminder

- Untimed unless your team decides otherwise. Self-corrections count as right.
- Count the right answers in each skill area on the score sheet: problems n and n + 6 are the same area.
- Units (cm, miles) are shown so you know what the answer measures; decide as a team whether a missing unit earns the point.

PREVIEW

Score Sheet for One Student

Mark the key, then tally each skill area. Two problems in each area, so each area is out of 2.

Student _____ Date given _____ Grade page used _____

Given by _____ Supports or time limit used _____ Setting _____

Skill area	Problems	Right (of 2)	Notes: what the work shows
Computation	1 and 7		
Fractions & decimals	2 and 8		
Place value & number sense	3 and 9		
Equations & expressions	4 and 10		
Measurement & geometry	5 and 11		
Word problems	6 and 12		
All twelve problems	1–12		

What I notice

Next teaching step

Our district's rule for what these scores mean (write it here; this file does not set one)

PREVIEW

A Filled-In Score Sheet (Invented Student)

Priya is invented. She took the grade 5 page. This shows how to tally it, nothing more.

Student	Grade page used	Total
Priya (invented)	Grade 5	9 of 12

Skill area	Problems	Right (of 2)
Computation	1: right 7: right	2
Fractions & decimals	2: right 8: right	2
Place value & number sense	3: right 9: right	2
Equations & expressions	4: wrong 10: wrong	0
Measurement & geometry	5: right 11: wrong	1
Word problems	6: right 12: right	2
All twelve problems	3 wrong	9

How the tally was made

- Marked wrong on the key: #4 (order of operations), #10 (equation with parentheses), #11 (area with decimals).
- Problems 5 and 11 are both measurement and geometry (problem 5 is the first page, problem 11 the second), so problem 11 missed leaves 1 of 2 there.
- Problems 4 and 10 are both equations and expressions; both were missed, so 0 of 2.
- 2 + 2 + 2 + 0 + 1 + 2 = 9, the same as 12 minus the 3 wrong.

What the teacher wrote for next steps (an example, not a rule)

Lowest area: equations and expressions. Look at the work on problems 4 and 10 to see whether the order of the steps or the arithmetic broke. Re-check with a short probe on that skill in two weeks.

Using tallies to group students

- Put students who are low in the same area at one table for a short lesson on that area.
- A student who is low in one area alone may need a different conversation than a group does.
- Re-check the area with a few new problems after the lessons, not the whole page.

What this example does not say

It does not say whether 9 of 12 is a good or a low score. That is your district's rule, and it goes on the blank line on the score sheet.

PREVIEW

Family Note

A short note home with blanks for your own words.

Student _____ Date _____ Sent by _____

Dear family,

This week your child did a short math check. It has twelve problems covering computation, fractions and decimals, place value, equations, measurement and geometry, and word problems. I use it to plan what to teach next, not to give a grade.

Problems right (out of 12) _____ Skill area to work on first _____

In my own words:

Ways to help at home (edit to fit)

- Ask your child to explain how they solved one problem out loud.
- Practice for five minutes a day on the area named above.

When to send it

- After you have scored the page and filled in the score sheet.
- Before a conference, so the family has the numbers first.
- Keep a copy with the student's data folder.

Team handoff

- Grade page used and any supports given are on the score sheet.
- The answer key and the class record are in this file, pages 17–20.

PREVIEW