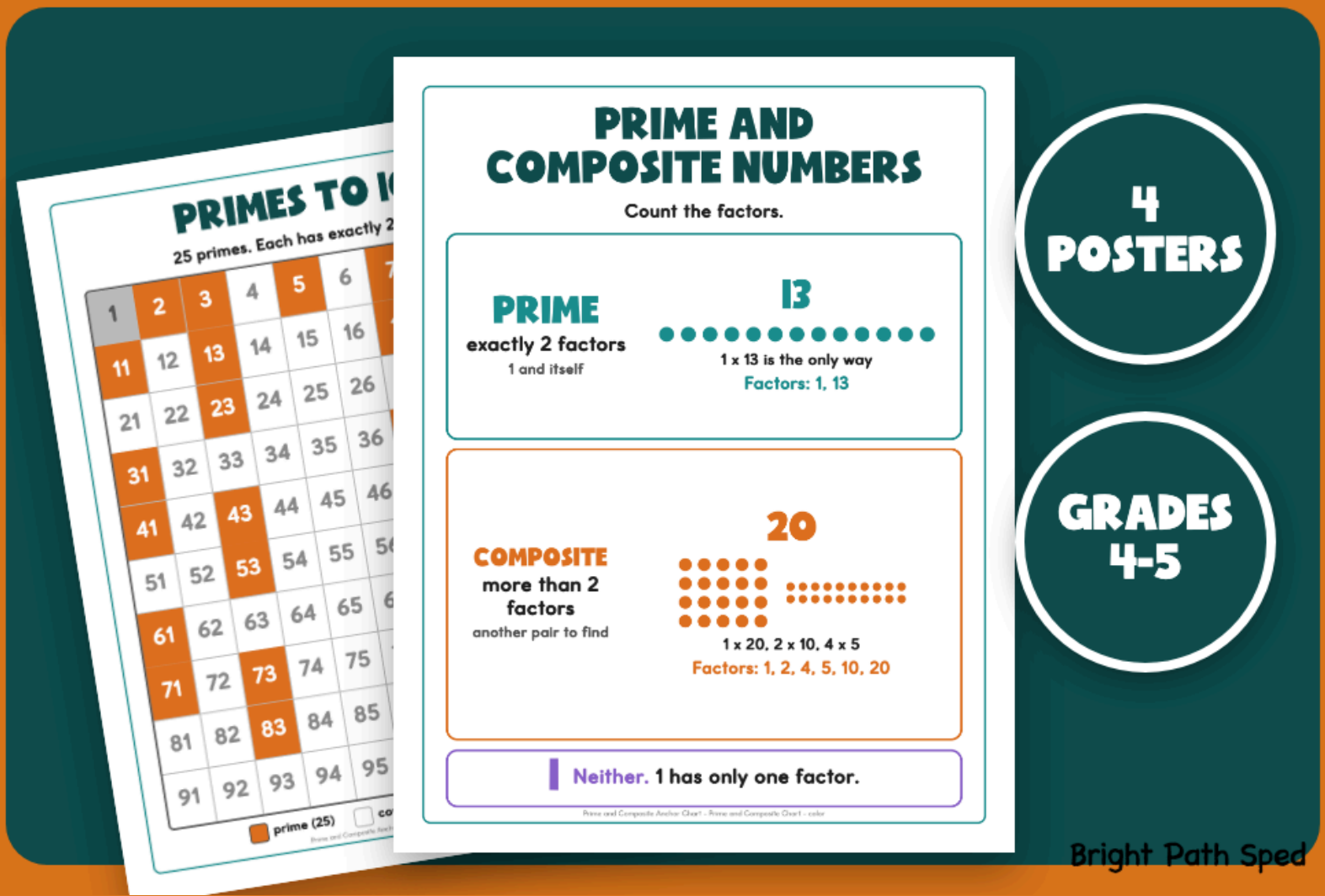
PRIME & COMPOSITE

Anchor Chart Posters



4 POSTERS

GRADES 4-5

Bright Path Sped

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This is a fillable PDF

- Open it in a PDF reader (Adobe Acrobat Reader, Preview, or your browser), click into a line or a box, type, and Save As.
- The name lines, the answer blanks on the practice pages, the home note and every notes area are type-in fields. The posters are print pages. You can also print any page and write by hand.
- It works offline. No account, no subscription, no internet connection needed after you download it.

Print at 100 percent

Turn off fit to page and shrink to fit so the cut pieces keep their size. Every page is readable in black and white, and the definition, T-chart and 1-100 chart posters come in an ink-saver copy. Posters look best on cardstock; the pieces children cut are fine on copy paper.

Need help?

If a field will not behave or a page will not print the way you expect, 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.

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PREVIEW

How to Teach It: Five Short Routines

Each one takes a few minutes. Build the factors first, then name the number.

1. A factor divides evenly

- Show the T-chart poster (page 7). Say: "1 x 13 = 13, so 1 and 13 are factors of 13."
- Ask: "Does 2 divide 13 evenly? Does 3?" Children answer together.

2. Count the factors

- Compare 13 and 20 on the T-chart poster. 13 has 2 factors. 20 has 6.
- Ask: "Is that exactly two, or more than two?"

3. Name it

- Show prime and composite (page 5). Exactly two factors is prime. More than two is composite.
- Ask: "What about 1?" It has one factor, so it is neither.

4. Check any number

- Use how to check a number (page 11). Try 21 and 19 together: write 1 x the number, then try 2, 3, 4 and stop when the factors meet.
- Children color the primes on the blank chart (page 15) and compare with the poster (page 9).

5. Sort and say why

- Cut the cards (page 13) and sort them on the mats (pages 21 and 22). Ask each child to pick one card and say how many factors it has.
- Send the family note (page 26) so families can try a number too.

Notes on your day

PREVIEW

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PRIME AND COMPOSITE NUMBERS

Count the factors.

PRIME

exactly 2 factors

1 and itself

13



1 x 13 is the only way

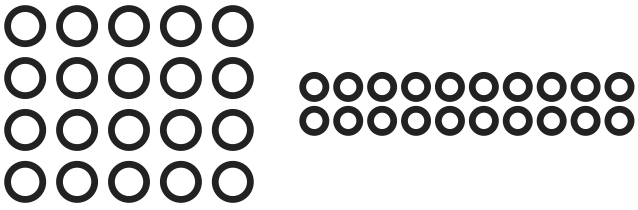
Factors: 1, 13

COMPOSITE

more than 2 factors

another pair to find

20



1 x 20, 2 x 10, 4 x 5

Factors: 1, 2, 4, 5, 10, 20

1 Neither. 1 has only one factor.

PREVIEW

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FACTOR T-CHARTS

Write each pair. Count the factors.

FACTORS OF 13

13

1	13

1, 13

2 factors

PRIME

FACTORS OF 20

20

1	20
2	10
4	5

1, 2, 4, 5, 10, 20

6 factors

COMPOSITE

PREVIEW

Start with 1. Try 2, 3, 4. Stop when the pairs meet.
Exactly 2 factors: prime. More than 2: composite.

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PRIME OR COMPOSITE?

Three steps to check any number.

1 **Write 1 x the number.**
Every number has 1 and itself.

1 X 21

2 **Try 2, 3, 4, 5.**
Does it divide evenly? Write the pair.

3 X 7

3 **Stop when the pairs meet.**
Count the factors.

4 FACTORS

21

1 x 21, 3 x 7
Factors: 1, 3, 7, 21
4 factors: composite

19

1 x 19
Factors: 1, 19
2 factors: prime

QUICK FACTS

2 is the only even prime number.
Even numbers greater than 2 are composite.
The number 1 is neither prime nor composite.

PREVIEW

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Cut the number cards apart. Glue them on page 21 or 22.

15	3	1	27
11	4	19	9
23	12	7	25
17	6	21	13

PREVIEW

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My name _____

Fill in your notes.

PRIME

A prime number has exactly ____ factors.

13 has the factors 1 and ____.

COMPOSITE

A composite number has more than ____ factors.

20 has the factors 1, 2, 4, 5, 10 and ____.

NEITHER

The number ____ is neither. It has only ____ factor.

FACTORS OF 11

____	____
____	____
____	____

____ factors

FACTORS OF 12

____	____
____	____
____	____

____ factors

PREVIEW

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My name _____

Count the factors. Circle prime or composite.

7 Factors: 1, 7 — prime / composite

9 Factors: 1, 3, 9 — prime / composite

12 Factors: 1, 2, 3, 4, 6, 12 — prime / composite

17 Factors: 1, 17 — prime / composite

15 Factors: 1, 3, 5, 15 — prime / composite

20 Factors: 1, 2, 4, 5, 10, 20 — prime / composite

11 Factors: 1, 11 — prime / composite

23 Factors: 1, 23 — prime / composite

18 Factors: 1, 2, 3, 6, 9, 18 — prime / composite

16 Factors: 1, 2, 4, 8, 16 — prime / composite

13 Factors: 1, 13 — prime / composite

19 Factors: 1, 19 — prime / composite

PREVIEW

Preview - Bright Path Sped

My name _____

Look at the arrays. Count the factors.

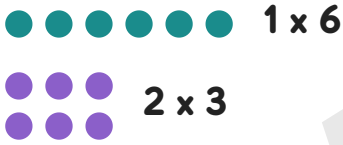
Each array shows one pair of factors.

11



____ factors prime composite

6



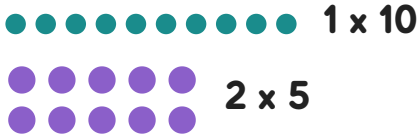
____ factors prime composite

13



____ factors prime composite

10



____ factors prime composite

14



____ factors prime composite

7



____ factors prime composite

PREVIEW

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My name _____

Glue the prime cards from page 13 here.

PRIME exactly 2 factors
13: 1 and 13

glue	glue	glue	glue
glue	glue	glue	glue

glue

NEITHER

Only one factor.
Glue the 1 here.

PREVIEW

Filled Example: One Child's Page

The page is Prime or Composite (page 16). Theo (invented child). The child, the teacher and every answer on this page are invented.

Number	Factors	How many	Theo circled	Right?
7	1, 7	2	prime	yes
12	1, 2, 3, 4, 6, 12	6	composite	yes
15	1, 3, 5, 15	4	prime	no: composite
11	1, 11	2	prime	yes
18	1, 2, 3, 6, 9, 18	6	composite	yes
13	1, 13	2	prime	yes
9	1, 3, 9	3	prime	no: composite
17	1, 17	2	prime	yes
20	1, 2, 4, 5, 10, 20	6	composite	yes
23	1, 23	2	prime	yes
16	1, 2, 4, 8, 16	5	composite	yes
19	1, 19	2	prime	yes

Reading the page

10 of 12 were right. Theo circled prime for 15 and for 9. 15 has 4 factors and 9 has 3, so both are composite.

What the teacher did next

The teacher pointed to the factors listed on the page and asked, "Is that exactly two?" Theo counted again, saw more than two, and changed both answers.

What this example is not

One invented child's page. It sets no typical score, says nothing about any real child and predicts nothing.

My notes on the page

PREVIEW

Key: Riddles, Chart, Sort and Prove It

The sort cards are numbered by the mat they belong on, not by their place on the cut sheet.

Riddles (page 19)

Riddle	I am	Circle
1	2	prime
2	23	prime
3	9	composite
4	1	neither
5	25	composite
6	11	prime

Color the primes (page 15)

Color these 25 primes: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97. Cross out 1. A child who colors 25 and says 1 is neither has the chart right.

Sort (pages 21 and 22)

Mat	Cards	How many
prime	3, 7, 11, 13, 17, 19, 23	7
composite	4, 6, 9, 12, 15, 21, 25, 27	8
neither	1	1

7 + 8 + 1 = 16 cards on page 22.

Prove it (page 20)

Check that the factors listed multiply in pairs to make the number and that the count matches prime (exactly 2) or composite (more than 2). Any number from 2 to 40 works.

My notes on the answers

PREVIEW

A Note Home: Prime and Composite Numbers

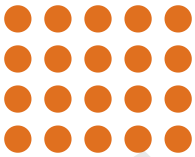
One page to send home when you start the posters.

Date _____ Class _____ Teacher _____

Dear families,

This week we are learning about **prime and composite numbers**. A factor is a number that divides another number evenly. A prime number has exactly two factors: 1 and itself, like 13. A composite number has more than two, like 20.





This week we are practicing

_____

_____

You can try this at home

Pick a number together and look for pairs that multiply to make it. Ask: "How many factors did we find? Is that exactly two, or more than two?"

_____

_____

_____

A note from me (your words)

_____

_____

_____

_____

Thank you, (teacher) _____ Family signature, if your school asks for one _____

PREVIEW