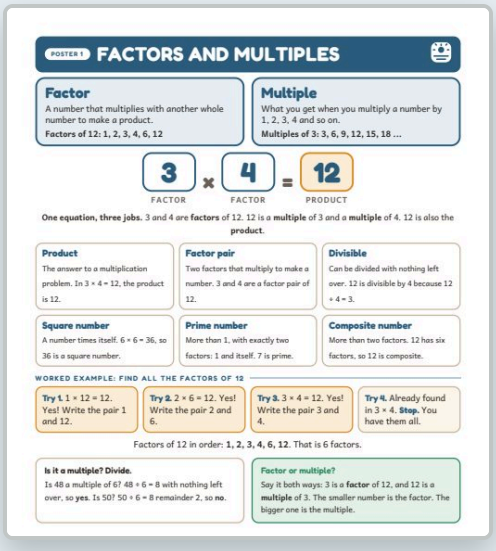
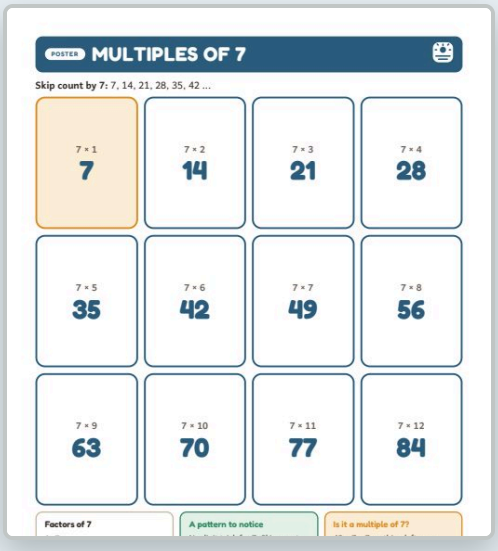
MATH

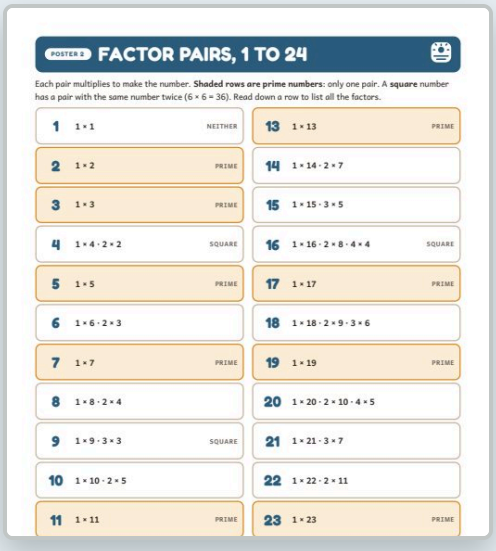
15 POSTERS

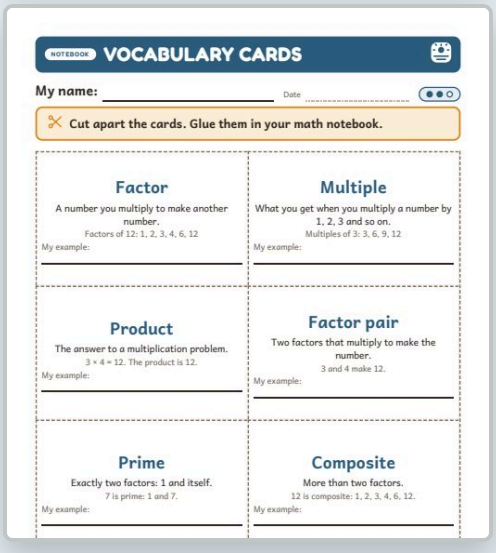
FACTORS AND MULTIPLES ANCHOR CHART

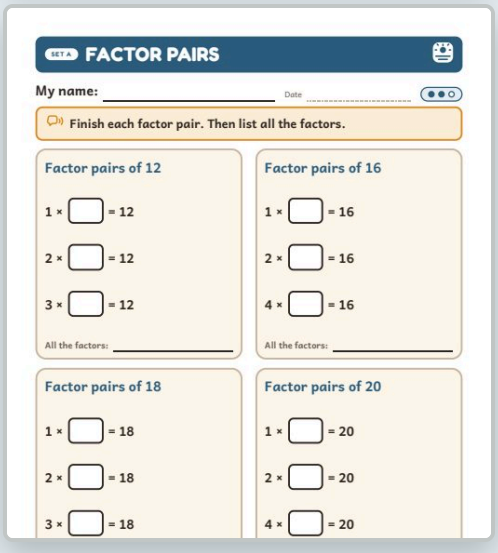
Full-size posters, multiples of 2 to 12, a student notebook version and practice pages. Fillable PDF.

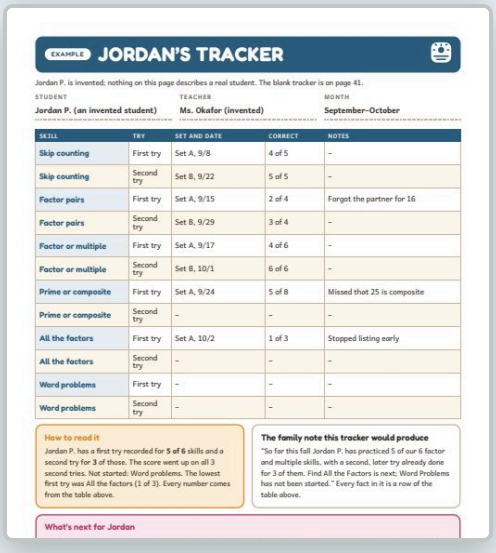












Fillable PDF | **49 Pages** | **15 Posters** | **Notebook Cards**

BRIGHT PATH SPED

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PREVIEW

HOW IT WORKS

HOW TO READ A PAGE

THE PARTS OF A PAGE

Shaded box
A number the page gives the child, like the first two numbers when skip counting.

Show your work
A big dashed box for drawing, listing or dividing. Nothing is scored from it.

White box
The child writes here with a pencil.

YES / NO, PRIME / COMPOSITE
The child circles one.

THE PRACTICE FORMATS

PAGE	WHAT THE CHILD DOES	WHAT IT ASKS FOR
Skip Counting	numbers in boxes	Count by 2 to 12 and write the next multiples. One dot.
Factor Pairs	boxes and a list	Finish each pair, then list every factor. Two dots.
Factor or Multiple? / Prime or Composite?	circle one	Decide and circle. Two dots.
Sorts	cut and glue	16 number cards into two boxes. Two dots.
Find All the Factors / Word Problems	show your work	Work in a big box, then write the answer. Three dots.

One question, three ways

Factor or Multiple? "Is 42 a multiple of 8?" → NO (42 ÷ 8 = 5 remainder 2).
Factor Pairs for 18: 1 × 18, 2 × 9, 3 × 6, so the factors are 1, 2, 3, 6, 9, 18.
Prime or Composite? 17 has factors 1, 17, so it is prime. The answer keys (pages 39, 40) list every item this way.

Color or black and white

Every page prints clean in black and white. The shaded boxes and tinted rows are light enough to photocopy. Posters look best in color if you have it.

Printing and the type-in fields

In any PDF reader, click a name line, a tracker cell or a note box to type into it, then save. The student worksheets are pencil work. This is a PDF, not a slideshow or a word-processor file.

The dots in the corner

One dot is the easiest page, two is the standard page and three is the page that asks for more. The dots are the only code for how hard a page is. There is no word printed on a page a student holds.

Practice, not a graded test

Nothing here is timed or scored against a norm. The tracker and class grid (pages 41, 42) are for your own notes on what a student still mixes up.

PREVIEW

POSTER 2 FACTOR PAIRS, 1 TO 24

Each pair multiplies to make the number. **Shaded rows are prime numbers**: only one pair. A **square** number has a pair with the same number twice (6 × 6 = 36). Read down a row to list all the factors.

1	1 × 1	NEITHER
2	1 × 2	PRIME
3	1 × 3	PRIME
4	1 × 4 · 2 × 2	SQUARE
5	1 × 5	PRIME
6	1 × 6 · 2 × 3	
7	1 × 7	PRIME
8	1 × 8 · 2 × 4	
9	1 × 9 · 3 × 3	SQUARE
10	1 × 10 · 2 × 5	
11	1 × 11	PRIME
12	1 × 12 · 2 × 6 · 3 × 4	
13	1 × 13	PRIME
14	1 × 14 · 2 × 7	
15	1 × 15 · 3 × 5	
16	1 × 16 · 2 × 8 · 4 × 4	SQUARE
17	1 × 17	PRIME
18	1 × 18 · 2 × 9 · 3 × 6	
19	1 × 19	PRIME
20	1 × 20 · 2 × 10 · 4 × 5	
21	1 × 21 · 3 × 7	
22	1 × 22 · 2 × 11	
23	1 × 23	PRIME
24	1 × 24 · 2 × 12 · 3 × 8 · 4 × 6	

PREVIEW

POSTER 4 PRIME, COMPOSITE AND DIVISIBLE

HOW TO FIND ALL THE FACTORS OF A NUMBER

1. Start with 1. Write 1 × the number. Every number has this pair.

2. Try 2, 3, 4 … in order. If the number divides with nothing left over, write the pair.

3. Stop when the next factor is one you already wrote.

Prime number

Exactly two factors: 1 and itself.

13: 1 × 13 only.

Prime numbers up to 50 are listed below.

Composite number

More than two factors.

15: 1 × 15 and 3 × 5, so the factors are 1, 3, 5, 15.

1 is neither prime nor composite: it has only one factor.

THE 15 PRIME NUMBERS UP TO 50

2 **3** **5** **7** **11** **13** **17** **19** **23** **29** **31** **37** **41** **43** **47**

IS IT DIVISIBLE? QUICK CHECKS

2	Ends in 0, 2, 4, 6 or 8	Example: 148 → ends in 8
3	The digits add up to a multiple of 3	Example: 147 → 1 + 4 + 7 = 12
4	The last two digits make a multiple of 4	Example: 316 → 16 is a multiple of 4
5	Ends in 0 or 5	Example: 235 → ends in 5
6	Even, and the digits add up to a multiple of 3	Example: 114 → even, and 1 + 1 + 4 = 6
9	The digits add up to a multiple of 9	Example: 378 → 3 + 7 + 8 = 18
10	Ends in 0	Example: 460 → ends in 0

PREVIEW

POSTER MULTIPLES OF 4

Skip count by 4: 4, 8, 12, 16, 20, 24 ...

4 × 1 = **4**	4 × 2 = **8**	4 × 3 = **12**	4 × 4 = **16**
4 × 5 = **20**	4 × 6 = **24**	4 × 7 = **28**	4 × 8 = **32**
4 × 9 = **36**	4 × 10 = **40**	4 × 11 = **44**	4 × 12 = **48**

Factors of 4

1, 2, 4

4 is *a* composite number.

A pattern to notice

The ones digits repeat 4, 8, 2, 6, 0. Multiples of 4 are double the multiples of 2.

Is it a multiple of 4?

28 ÷ 4 = 7, nothing left over: **yes**.

29 ÷ 4 = 7 remainder 1: **no**.

PREVIEW

POSTER MULTIPLES OF 6

Skip count by 6: 6, 12, 18, 24, 30, 36 ...

6 × 1 = **6**	6 × 2 = **12**	6 × 3 = **18**	6 × 4 = **24**
6 × 5 = **30**	6 × 6 = **36**	6 × 7 = **42**	6 × 8 = **48**
6 × 9 = **54**	6 × 10 = **60**	6 × 11 = **66**	6 × 12 = **72**

PREVIEW

Factors of 6

1, 2, 3, 6

6 is a composite number.

A pattern to notice

Multiples of 6 are even, and their digits add up to a multiple of 3 (48: 4 + 8 = 12).

Is it a multiple of 6?

42 ÷ 6 = 7, nothing left over: **yes**.

43 ÷ 6 = 7 remainder 1: **no**.

POSTER MULTIPLES OF 9

Skip count by 9: 9, 18, 27, 36, 45, 54 ...

9 × 1 = **9**	9 × 2 = **18**	9 × 3 = **27**	9 × 4 = **36**
9 × 5 = **45**	9 × 6 = **54**	9 × 7 = **63**	9 × 8 = **72**
9 × 9 = **81**	9 × 10 = **90**	9 × 11 = **99**	9 × 12 = **108**

PREVIEW

Factors of 9

1, 3, 9

9 is *a* composite number.

A pattern to notice

In the first ten multiples of 9 the digits add up to 9 (72: 7 + 2 = 9).

Is it a multiple of 9?

63 ÷ 9 = 7, nothing left over: **yes**.

64 ÷ 9 = 7 remainder 1: **no**.

POSTER MULTIPLES OF 11

Skip count by 11: 11, 22, 33, 44, 55, 66 ...

11 × 1 = **11**	11 × 2 = **22**	11 × 3 = **33**	11 × 4 = **44**
11 × 5 = **55**	11 × 6 = **66**	11 × 7 = **77**	11 × 8 = **88**
11 × 9 = **99**	11 × 10 = **110**	11 × 11 = **121**	11 × 12 = **132**

PREVIEW

Factors of 11

1, 11

11 is a prime number.

A pattern to notice

From 11 × 1 to 11 × 9 the two digits are the same: 11, 22, 33 ... 99.

Is it a multiple of 11?

77 ÷ 11 = 7, nothing left over: **yes**.

78 ÷ 11 = 7 remainder 1: **no**.

NOTEBOOK

MULTIPLES CARDS

My name: _____ Date .....

Cut apart the cards. Glue them in your math notebook.

Multiples of 2 2, 4, 6, 8, 10 12, 14, 16, 18, 20	**Multiples of 3** 3, 6, 9, 12, 15 18, 21, 24, 27, 30	**Multiples of 4** 4, 8, 12, 16, 20 24, 28, 32, 36, 40
Multiples of 5 5, 10, 15, 20, 25 30, 35, 40, 45, 50	**Multiples of 6** 6, 12, 18, 24, 30 36, 42, 48, 54, 60	**Multiples of 7** 7, 14, 21, 28, 35 42, 49, 56, 63, 70
Multiples of 8 8, 16, 24, 32, 40 48, 56, 64, 72, 80	**Multiples of 9** 9, 18, 27, 36, 45 54, 63, 72, 81, 90	**Multiples of 10** 10, 20, 30, 40, 50 60, 70, 80, 90, 100
Multiples of 11 11, 22, 33, 44, 55 66, 77, 88, 99, 110	**Multiples of 12** 12, 24, 36, 48, 60 72, 84, 96, 108, 120	**Multiples of ___** _____ _____

PREVIEW

SET B SKIP COUNTING

My name: _____ Date .....

Count by the number. Write the next numbers in the boxes.

Count by 6s.

6	12						

Count by 7s.

7	14						

Count by 8s.

8	16						

Count by 9s.

9	18						

Count by 12s.

12	24						

PREVIEW

SET A FACTOR OR MULTIPLE?

My name: _____ Date .....

Read each question. Circle YES or NO.

1. Is 42 *a* multiple of 8?

YES NO

2. Is 9 *a* factor of 45?

YES NO

3. Is 30 *a* multiple of 4?

YES NO

4. Is 35 *a* multiple of 7?

YES NO

5. Is 4 *a* factor of 20?

YES NO

6. Is 6 *a* factor of 20?

YES NO

PREVIEW

SET A PRIME OR COMPOSITE?

My name: _____ Date .....

Write the factors. Circle PRIME or COMPOSITE.

7	My factors: _____	PRIME	COMPOSITE
12	My factors: _____	PRIME	COMPOSITE
15	My factors: _____	PRIME	COMPOSITE
17	My factors: _____	PRIME	COMPOSITE
21	My factors: _____	PRIME	COMPOSITE
23	My factors: _____	PRIME	COMPOSITE
25	My factors: _____	PRIME	COMPOSITE
29	My factors: _____	PRIME	COMPOSITE

PREVIEW

SET B FIND ALL THE FACTORS

My name: _____ Date .....

Find every factor. Show your work in the box.

Find all the factors of 28.

Show your work

The factors are: _____

Find all the factors of 40.

Show your work

The factors are: _____

Find all the factors of 42.

Show your work

The factors are: _____

PREVIEW

SET B WORD PROBLEMS

My name: _____ Date .....

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

1 Leo has 32 blocks. He builds towers that are all the same height. Write every factor pair of 32.

Show your work

My answer: _____

2 Train cars are numbered by 7s: 7, 14, 21 ... Is there a car 63? Car 70? Car 75?

Show your work

My answer: _____

3 I am a factor of 36. I am a multiple of 4. I am more than 4 and less than 36. What number am I?

Show your work

My answer: _____

PREVIEW

SORT SORT THE NUMBERS 2

My name: _____ Date .....

Glue each number card in the right box.

Prime

glue here

Composite

glue here

PREVIEW

ANSWER KEY

ANSWER KEY: COUNTING, PAIRS, FACTOR OR MULTIPLE

Generated from the same data as the student pages, never hand-typed.

SKIP COUNTING

A · count by 2: 2, 4, 6, 8, 10, 12, 14, 16

A · count by 3: 3, 6, 9, 12, 15, 18, 21, 24

A · count by 4: 4, 8, 12, 16, 20, 24, 28, 32

A · count by 5: 5, 10, 15, 20, 25, 30, 35, 40

A · count by 10: 10, 20, 30, 40, 50, 60, 70, 80

B · count by 6: 6, 12, 18, 24, 30, 36, 42, 48

B · count by 7: 7, 14, 21, 28, 35, 42, 49, 56

B · count by 8: 8, 16, 24, 32, 40, 48, 56, 64

B · count by 9: 9, 18, 27, 36, 45, 54, 63, 72

B · count by 12: 12, 24, 36, 48, 60, 72, 84, 96

FACTOR PAIRS

A · 12: 1 × 12, 2 × 6, 3 × 4 · factors 1, 2, 3, 4, 6, 12

A · 16: 1 × 16, 2 × 8, 4 × 4 · factors 1, 2, 4, 8, 16

A · 18: 1 × 18, 2 × 9, 3 × 6 · factors 1, 2, 3, 6, 9, 18

A · 20: 1 × 20, 2 × 10, 4 × 5 · factors 1, 2, 4, 5, 10, 20

B · 24: 1 × 24, 2 × 12, 3 × 8, 4 × 6 · factors 1, 2, 3, 4, 6, 8, 12, 24

B · 28: 1 × 28, 2 × 14, 4 × 7 · factors 1, 2, 4, 7, 14, 28

B · 30: 1 × 30, 2 × 15, 3 × 10, 5 × 6 · factors 1, 2, 3, 5, 6, 10, 15, 30

B · 32: 1 × 32, 2 × 16, 4 × 8 · factors 1, 2, 4, 8, 16, 32

FACTOR OR MULTIPLE?

A1. Is 42 *a* multiple of 8? **NO** (42 ÷ 8 = 5 remainder 2)

A2. Is 9 *a* factor of 45? **YES** (45 ÷ 9 = 5)

A3. Is 30 *a* multiple of 4? **NO** (30 ÷ 4 = 7 remainder 2)

A4. Is 35 *a* multiple of 7? **YES** (35 ÷ 7 = 5)

A5. Is 4 *a* factor of 20? **YES** (20 ÷ 4 = 5)

A6. Is 6 *a* factor of 20? **NO** (20 ÷ 6 = 3 remainder 2)

B1. Is 36 *a* multiple of 9? **YES** (36 ÷ 9 = 4)

B2. Is 50 *a* multiple of 12? **NO** (50 ÷ 12 = 4 remainder 2)

B3. Is 7 *a* factor of 50? **NO** (50 ÷ 7 = 7 remainder 1)

B4. Is 8 *a* factor of 56? **YES** (56 ÷ 8 = 7)

B5. Is 54 *a* multiple of 6? **YES** (54 ÷ 6 = 9)

B6. Is 5 *a* factor of 32? **NO** (32 ÷ 5 = 6 remainder 2)

PREVIEW

CLASS GRID

CLASS PROGRESS GRID

CLASS OR GROUP

MONTH

STUDENT	SKIP COUNTING	FACTOR PAIRS	FACTOR OR MULTIPLE	PRIME OR COMPOSITE	ALL THE FACTORS	WORD PROBLEMS	NOTES

PREVIEW

How to fill this in

Write the date a child last did that skill on their own, or a checkmark. One look across a row shows what a child has tried. One look down a column shows what the class has not seen yet.

Using it to plan

A column with few dates is the skill to teach with the posters next. Page 6 has the posters and page 43 has the family note for that skill.

AT HOME

MATH AT HOME

For a family or an after-school helper. No worksheets, no printing needed: four short games for any spare minute. Send this page home with the family note (page 43).

Count by a number

Pick a number from 2 to 12. Count by it while you walk, set the table or wait in line. Start with 5s (5, 10, 15, 20, 25, 30 …) or 10s.

Clock multiples

Each number on a clock face stands for a multiple of 5 minutes: 1 is 5, 2 is 10, 3 is 15 and so on up to 12, which is 60. Ask: “What is 7 on the clock?” (35)

Factor hunt

Pick any number you see today, up to 50. Find a pair that multiplies to make it, then find them all. Is it prime?

Share it fairly

Twelve crackers can be shared evenly by 1, 2, 3, 4, 6 or 12 people. Try it with 18, 20 or 24 small things: who can share them with nothing left?

OUR NUMBER THIS WEEK

WHERE WE FOUND IT

THE FACTORS OR MULTIPLES WE FOUND

WHAT WAS EASY, AND WHAT WAS HARD

PREVIEW

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 · GRADES 3–5

FACTORS AND MULTIPLES ANCHOR CHART

Posters · Notebook · Practice

TEACHER

CLASS OR STUDENT

PREVIEW