

FACT FAMILIES

Addition and subtraction triangles — matching, fill in the blank and Circle It. Fillable PDF.

QUICK START

One complete kit for five addition and subtraction fact families — a part, a whole, every time: matching a number sentence to its family, finding a missing number in the triangle, and telling a correct number from a wrong one — every student answer is written or circled in pencil, nothing is cut or glued on a student page.

THREE STEPS

- Meet the five families**
Page 6 is the anchor chart: all five fact families, their triangle, and the four facts each one makes. Read it with a student before the first worksheet.
- Pick a format**
Three ways to practice: matching (write the letter), finding the missing number, and circling the correct number. The chart below says which page for which family.
- Track it, roll it up, send it home**
The answer keys are pages 19 and 20. Date each family on the tracker (page 21), roll the class up on page 22, and send the family note home (page 23). A filled example is on page 25.

WHEN...	WHEN...
Now to matching a number sentence to its family	Match the Family, pages 7, 8
Ready to find a missing number	Fill in the Blank, pages 9, 10, 11, 12, 13
Ready to tell a correct number from a wrong one	Circle It, pages 14, 15, 16, 17, 18
Opening a whole-class number talk	Number Talk, page 24
Writing a family update or noticing a fact family	Family note, page 23 • phrase bank, page 26
Setting up a binder for this file	Binder cover and divider tabs, pages 27-28

Everything inside (29 pages)

- 12 student pages: 2 matching sets, 5 fill-in-the-blank pages (one a family) and 5 circle-it pages (one a family)
- 5 fact families, each with its own triangle and its own four addition/subtraction facts
- 2 answer keys generated from the same data as the pages, 1 tracker and 1 class grid
- 1 family note, 1 number talk, 1 filled example, 1 phrase bank
- 1 binder cover, 5 divider tabs and a spine label

What this is not

Not a timed probe or a scored assessment. Every family is invented classroom math; nothing here names or describes a real child. Page 4 shows how each page works.

MATCH THE FAMILY

My name: _____ Date: _____

Read each number sentence. Write the letter of the fact family it belongs to.

1	$5 + 6 = 11$	☐
2	$2 + 6 = 8$	☐
3	$4 + 5 = 9$	☐
4	$6 + 7 = 13$	☐
5	$3 + 4 = 7$	☐

FILL IN THE BLANK

My name: _____ Date: _____

Read each triangle. Write the missing number in the box.

- Find the missing number at the top of the triangle.
- Find the missing number at the bottom left of the triangle.
- Find the missing number at the bottom right of the triangle.

Now write the four facts for 3, 4, 7

$3 + 4 = 7$	$4 + 3 = 7$
$7 - 3 = 4$	$7 - 4 = 3$

Check it
 $3 + 4 = 7$, and $4 + 3 = 7$ — those are the two addition facts. $7 - 3 = 4$, and $7 - 4 = 3$ — those are the two subtraction facts. If your four facts above do not match these, find the mistake before moving on.

CIRCLE IT

My name: _____ Date: _____

Read each number sentence. Circle the number that belongs in the blank.

- $3 + 4 = \underline{\quad}$
☐ 11 ☐ 7 ☐ 8
- $4 + 3 = \underline{\quad}$
☐ 11 ☐ 7 ☐ 8
- $7 - 3 = \underline{\quad}$
☐ 11 ☐ 7 ☐ 8
- $7 - 4 = \underline{\quad}$
☐ 11 ☐ 7 ☐ 8

FACT FAMILIES TRACKER

STUDENT: _____ TEACHER: _____ MONTH: _____

FAMILY	TRY	MATCH (SET, DATE)	FILL-IN (SCORE, DATE)	CIRCLE-IT (SCORE, DATE)	NOTES
a-3, 4, 7	First try				
a-3, 4, 7	Second try				
b-2, 6, 8	First try				
b-2, 6, 8	Second try				
c-5, 6, 11	First try				
c-5, 6, 11	Second try				
d-4, 5, 9	First try				
d-4, 5, 9	Second try				
e-6, 7, 13	First try				
e-6, 7, 13	Second try				

How to fill this in
Date each call the day the child does that format for that family with no prompt. "First try" and "Second try" are two different occasions, not two attempts at the same worksheet — leave the second row blank until the family comes back around. A blank never means wrong, only not tried yet. Answer keys: pages 19 and 20. Filled example: page 25.

When to move a family to the class grid
Once a family has a Second try recorded here, it has had two separate occasions — move it to the class grid (page 22) and free this page for a family that still needs individual tracking.

THIS MONTH WE ARE FOCUSING ON _____

JORDAN'S TRACKER

Jordan T. is invented, nothing on this page describes a real student. The blank tracker is on page 21.

STUDENT: Jordan T. (an invented student) TEACHER: Ms. Patel (invented) MONTH: September-October

FAMILY	TRY	MATCH (SET, DATE)	FILL-IN (SCORE, DATE)	CIRCLE-IT (SCORE, DATE)	NOTES
a-3, 4, 7	First try	Set A, 9/8	4 of 4, 9/8	4 of 4, 9/11	-
a-3, 4, 7	Second try	Set B, 9/25	4 of 4, 9/25	4 of 4, 9/25	-
b-2, 6, 8	First try	Set A, 9/12	3 of 4, 9/12	3 of 4, 9/12	Needed a reminder during Circle It
b-2, 6, 8	Second try	Set B, 9/29	4 of 4, 9/29	4 of 4, 9/29	-
c-5, 6, 11	First try	Set B, 9/18	2 of 4, 9/18	-	-
c-5, 6, 11	Second try	-	-	-	-
d-4, 5, 9	First try	-	-	-	-
d-4, 5, 9	Second try	-	-	-	-
e-6, 7, 13	First try	Set A, 9/24	4 of 4, 9/24	4 of 4, 9/24	-
e-6, 7, 13	Second try	Set B, 10/2	4 of 4, 10/2	4 of 4, 10/2	-

How to read it
Jordan T. has a first try recorded for 4 of 5 families and a second try for 3 of those. Still not started: d (4, 5, 9). Needs its Circle It page on the first try: c (5, 6, 11). Every number comes from the table above.

The family note this tracker would produce
"So far this fall, Jordan T. has practiced 4 of our 5 fact families, with a second, later try already recorded for 3 of them. Family b needed one reminder during the first Circle It; family d has not been started yet." — every fact in it is a row of the table above.

What's next for Jordan
Start family d (page 7 for Set A). Give family c its Circle It page (page 16). Families a, b and e have two tries recorded and are ready for the class grid (page 22) instead of the individual tracker.



One complete kit for five addition and subtraction fact families — a part, a part and a whole, every time: matching a number sentence to its family, finding a missing number in the triangle, and telling a correct number from a wrong one — every student answer is written or circled in pencil, nothing is cut or glued on a student page.

THREE STEPS

1 Meet the five families

Page 6 is the anchor chart: all five fact families, their triangle, and the four facts each one makes. Read it with a student before the first worksheet.

2 Pick a format

Three ways to practice: matching (write the letter), finding the missing number, and circling the correct number. The chart below says which page for which family.

3 Track it, roll it up, send it home

The answer keys are pages 19 and 20. Date each family on the tracker (page 21), roll the class up on page 22, and send the family note home (page 23). A filled example is on page 25.

WHICH PAGE, WHEN

WHEN...	USE...
New to matching a number sentence to its family	Match the Family, pages 7, 8
Ready to find a missing number	Fill in the Blank, pages 9, 10, 11, 12, 13
Ready to tell a correct number from a wrong one	Circle It, pages 14, 15, 16, 17, 18
Opening a whole-class number talk	Number Talk, page 24
Writing a family update or noticing a fact family	Family note, page 23 · phrase bank, page 26
Setting up a binder for this file	Binder cover and divider tabs, pages 27–28

Everything inside (29 pages)

- **12 student pages:** 2 matching sets, 5 fill-in-the-blank pages (one a family) and 5 circle-it pages (one a family)
- **5 fact families**, each with its own triangle and its own four addition/subtraction facts
- **2 answer keys** generated from the same data as the pages, **1 tracker** and **1 class grid**
- **1 family note**, **1 number talk**, **1 filled example**, **1 phrase bank**
- **1 binder cover**, **5 divider tabs** and a spine label, cut along the dashed lines

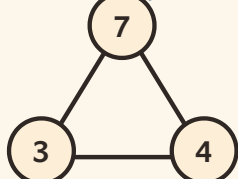
What this is not

Not a timed probe or a scored assessment. Every family is invented classroom math; nothing here names or describes a real child. Page 4 shows how each page works.



A fact family is a whole and the two parts that add up to it. This chart gives the triangle and the four addition and subtraction facts for each of the five families this file practices.

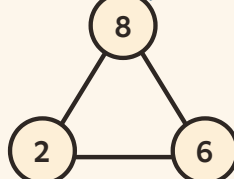
a • 3, 4, 7



$$3 + 4 = 7 \quad 4 + 3 = 7$$

$$7 - 3 = 4 \quad 7 - 4 = 3$$

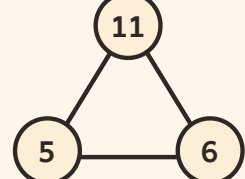
b • 2, 6, 8



$$2 + 6 = 8 \quad 6 + 2 = 8$$

$$8 - 2 = 6 \quad 8 - 6 = 2$$

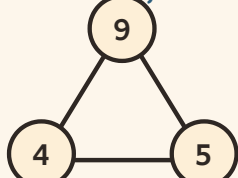
c • 5, 6, 11



$$5 + 6 = 11 \quad 6 + 5 = 11$$

$$11 - 5 = 6 \quad 11 - 6 = 5$$

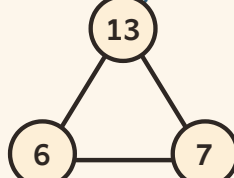
d • 4, 5, 9



$$4 + 5 = 9 \quad 5 + 4 = 9$$

$$9 - 4 = 5 \quad 9 - 5 = 4$$

e • 6, 7, 13



$$6 + 7 = 13 \quad 7 + 6 = 13$$

$$13 - 6 = 7 \quad 13 - 7 = 6$$

Using this page

A fact family is one whole and the two parts that make it. Any two of the three numbers in the triangle makes the third. Read a family's triangle and its four facts aloud before the first worksheet on that family.

The letters on the matching pages

Page 7 and page 8 use these same five families lettered a-e.

Where each family shows up again

Fill in the Blank and Circle It each give every family its own page (page 9 onward); the tracker (page 21) and class grid (page 22) use these same five families as their column headers.



My name: _____

Date _____



Read each number sentence. Write the letter of the fact family it belongs to.

a. 3, 4, 7

b. 2, 6, 8

c. 5, 6, 11

d. 4, 5, 9

e. 6, 7, 13

1

$$5 + 6 = 11$$

2

$$2 + 6 = 8$$

3

$$4 + 5 = 9$$

4

$$6 + 7 = 13$$

5

$$3 + 4 = 7$$



A FILL IN THE BLANK



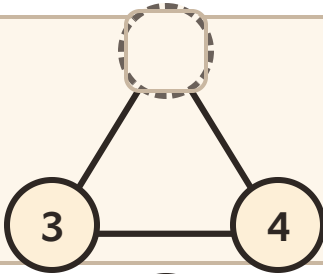
My name: _____

Date _____



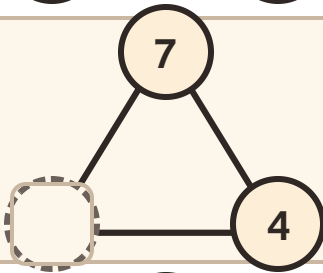
 Read each triangle. Write the missing number in the box.

1



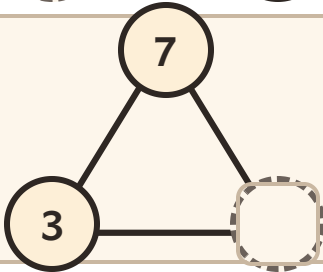
Find the missing number at the top of the triangle.

2



Find the missing number at the bottom left of the triangle.

3



Find the missing number at the bottom right of the triangle.

Now write the four facts for 3, 4, 7

___ + ___ = ___

___ + ___ = ___

___ - ___ = ___

___ - ___ = ___

Check it

$3 + 4 = 7$, and $4 + 3 = 7$ — those are the two addition facts. $7 - 3 = 4$, and $7 - 4 = 3$ — those are the two subtraction facts. If your four facts above do not match these, find the mistake before moving on.





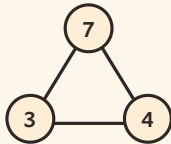
My name: _____

Date _____



Read each number sentence. Circle the number that belongs in the blank.

1



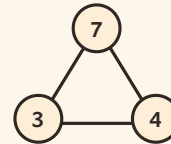
$$3 + 4 = \underline{\quad}$$

11

7

8

2



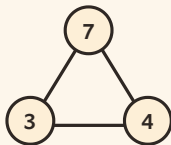
$$4 + 3 = \underline{\quad}$$

11

7

8

3



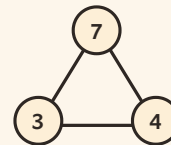
$$7 - 3 = \underline{\quad}$$

5

6

4

4



$$7 - 4 = \underline{\quad}$$

1

2

3





STUDENT

TEACHER

MONTH

FAMILY	TRY	MATCH (SET, DATE)	FILL-IN (SCORE, DATE)	CIRCLE IT (SCORE, DATE)	NOTES
a · 3, 4, 7	First try				
a · 3, 4, 7	Second try				
b · 2, 6, 8	First try				
b · 2, 6, 8	Second try				
c · 5, 6, 11	First try				
c · 5, 6, 11	Second try				
d · 4, 5, 9	First try				
d · 4, 5, 9	Second try				
e · 6, 7, 13	First try				
e · 6, 7, 13	Second try				

How to fill this in

Date each cell the day the child does that format for that family with no prompt. “First try” and “Second try” are two different occasions, not two attempts at the same worksheet — leave the second row blank until the family comes back around. A blank never means wrong, only not tried yet. Answer keys: pages 19 and 20. Filled example: page 25.

THIS MONTH WE ARE FOCUSING ON

When to move a family to the class grid

Once a family has a Second try recorded here, it has had two separate occasions — move it to the class grid (page 22) and free this page for a family that still needs individual tracking.





Jordan T. is invented; nothing on this page describes a real student. The blank tracker is on page 21.

STUDENT

TEACHER

MONTH

Jordan T. (an invented student)

Ms. Patel (invented)

September–October

FAMILY	TRY	MATCH (SET, DATE)	FILL-IN (SCORE, DATE)	CIRCLE IT (SCORE, DATE)	NOTES
a • 3, 4, 7	First try	Set A, 9/8	4 of 4, 9/8	4 of 4, 9/11	–
a • 3, 4, 7	Second try	Set B, 9/25	4 of 4, 9/25	4 of 4, 9/25	–
b • 2, 6, 8	First try	Set A, 9/12	3 of 4, 9/12	3 of 4, 9/12	Needed a reminder during Circle It
b • 2, 6, 8	Second try	Set B, 9/29	4 of 4, 9/29	4 of 4, 9/29	–
c • 5, 6, 11	First try	Set B, 9/18	2 of 4, 9/18	–	–
c • 5, 6, 11	Second try	–	–	–	–
d • 4, 5, 9	First try	–	–	–	–
d • 4, 5, 9	Second try	–	–	–	–
e • 6, 7, 13	First try	Set A, 9/24	4 of 4, 9/24	4 of 4, 9/24	–
e • 6, 7, 13	Second try	Set B, 10/2	4 of 4, 10/2	4 of 4, 10/2	–

How to read it

Jordan T. has a first try recorded for **4 of 5** families and a second try for **3** of those. Still not started: d (4, 5, 9). Needs its Circle It page on the first try: c (5, 6, 11). Every number comes from the table above.

The family note this tracker would produce

“So far this fall Jordan T. has practiced 4 of our 5 fact families, with a second, later try already recorded for 3 of them. Family b needed one reminder during the first Circle It; family d has not been started yet.” — every fact in it is a row of the table above.

What's next for Jordan

Start family d (page 7 for Set A). Give family c its Circle It page (page 16). Families a, b and e have two tries recorded and are ready for the class grid (page 22) instead of the individual tracker.





THANK YOU FOR USING THIS RESOURCE

Everything here was built for the teacher who has five fact families to teach and a table of children who each need a different amount of practice with them. If this helped, leaving feedback on TPT helps other teachers find it.

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**.

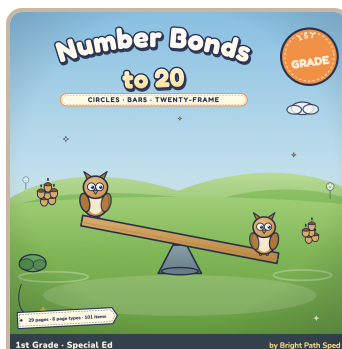
WHAT'S NEXT FROM THIS STORE

The same part-part-whole thinking, taken a step further: missing addends, number bonds, a timed progress-monitoring version, and the one case — doubles — a triangle cannot show.



Missing Addend Worksheets Within 20

The next step with the same three numbers: fill-in-the-blank missing-addend practice.



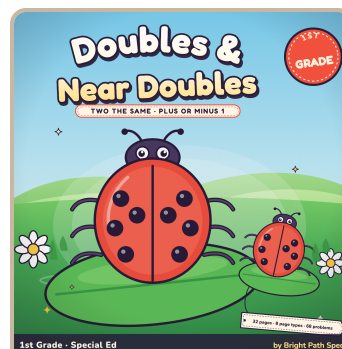
Number Bonds to 20 Worksheets

The part-part-whole model behind every fact family, in circles and bars.



Addition and Subtraction Within 20 Progress Monitoring Probes

A timed version of the same skill, for progress-monitoring data.



Doubles and Near Doubles Worksheets

The one case a triangle skips — doubles facts, practiced their own way.

Part of the K-2 Math Facts collection — new products in this collection are added regularly. Click **Follow** on the store page and TPT will email you when they go up.

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