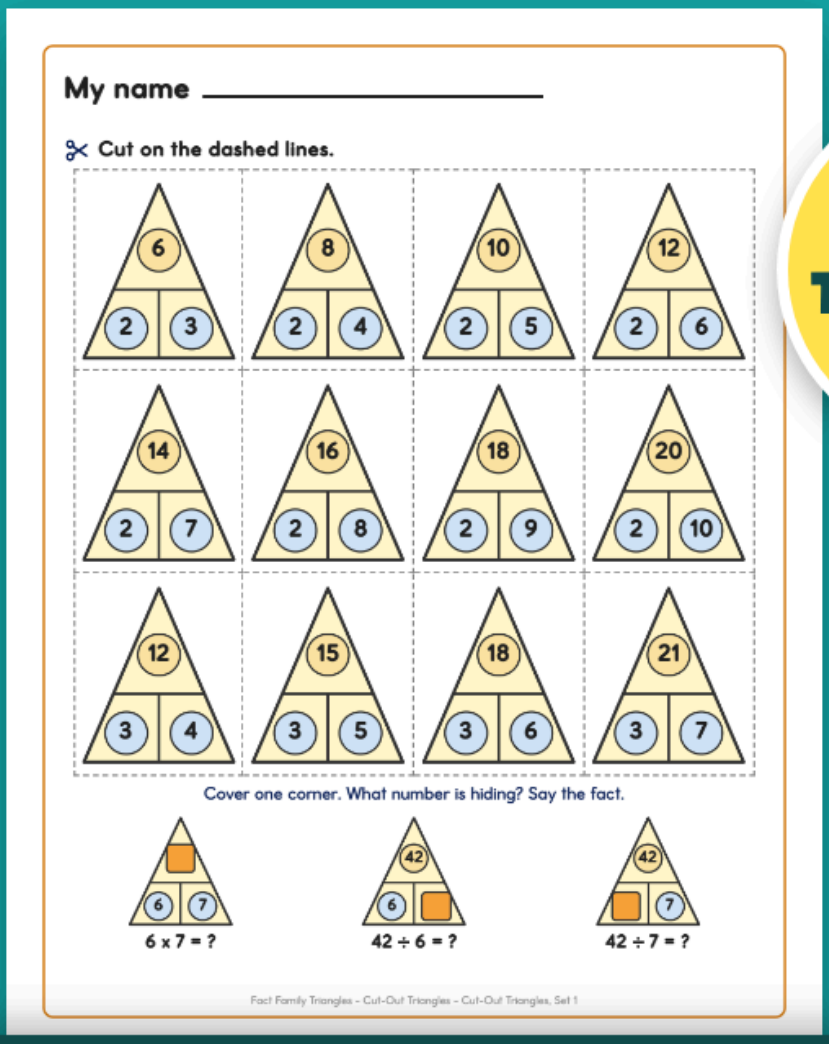
Bright Path Sped



36 TRIANGLES



6 x 7 = 42
7 x 6 = 42
42 ÷ 6 = 7
42 ÷ 7 = 6

FACT FAMILY TRIANGLES

MULTIPLICATION & DIVISION

Terms of Use

Please read before you print your first page.

One classroom license

- This file is for one classroom: one teacher, one group of students.
- 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.

This is a fillable PDF

- Open it in a PDF reader (Adobe Acrobat Reader, Preview, or your browser), click into a box, type, and Save As.
- The name line and every number box on the worksheets, fold pages, missing-number pages and make-your-own page are type-in fields. You can also print a page and let students write in the boxes with a pencil.
- It works offline once downloaded.

Print at 100 percent

Turn off fit to page and shrink to fit so the boxes stay big enough for a child's handwriting. Print the cut-out triangle pages on card stock if you can. Pages print in color or in black and white; the tints are light, so a gray print still reads.

Student work

A page a child has typed on carries a name. Use a first name only on any page that leaves your hands.

Need help?

If a box 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: re-download it any time from My Purchases.

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PREVIEW

How to Use This Set

For you, the teacher. Nothing on this page is for a student.

Four quick ways to use the triangles

- **Cover a corner.** Print and cut a set of triangles (pages 6-8). One partner covers a corner with a finger; the other says the fact. Switch.
- **Partner quiz.** Each pair gets a handful of triangles in an envelope. One child holds one up and asks for a multiplication or a division fact.
- **Check yourself.** The fold pages (10-11) let a child work alone and check without asking you.
- **Sort and match.** Mix two sets of triangles, then sort them into the facts of 2, of 3 and so on.

A five-day way in

Day	Try this
1	Read the how-to page (5) together. Cut a few triangles and say the four facts for each.
2	Worksheets 1 to 3 (pages 12-14) or the sheet that fits your group.
3	Fold and check (pages 10-11).
4	Missing numbers (pages 22-23).
5	Mixed review (page 21), then page 24 for triangles the children make up.

Good to know

- **Which triangles are here.** Every pair of different factors from 2 to 10 (36 triangles). A square such as 6 x 6 has only two facts, so it is left out. Facts of 0 and 1 are left out too.
- **Making the cut-out pages.** Print on card stock. Each triangle sits in its own rectangle, so every cut is one straight line.
- **Differences.** Starting: smaller facts, one triangle at a time. Ready for more: larger facts and the 12 missing-number triangles.

Questions to ask

- "Which number is the biggest? Where does it go?"
- "Tell me the two multiplication facts. Now the two division facts."
- "How does knowing 6 times 7 help you with 42 divided by 7?"

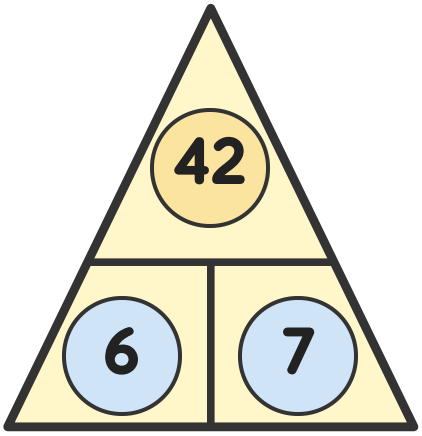
PREVIEW

My name _____

Read the triangle. Then try one.

How a Fact Triangle Works

Read the triangle



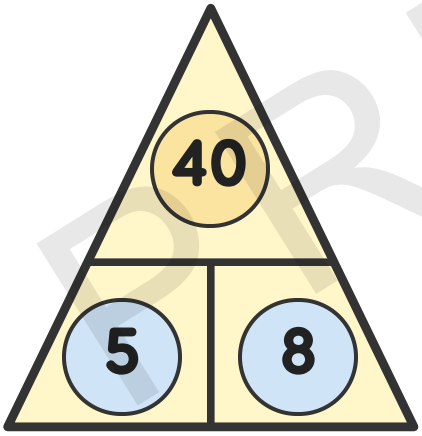
6 x 7 = 42

7 x 6 = 42

42 ÷ 6 = 7

42 ÷ 7 = 6

Your turn



Multiply

☐ x ☐ = ☐

☐ x ☐ = ☐

Divide

☐ ÷ ☐ = ☐

☐ ÷ ☐ = ☐

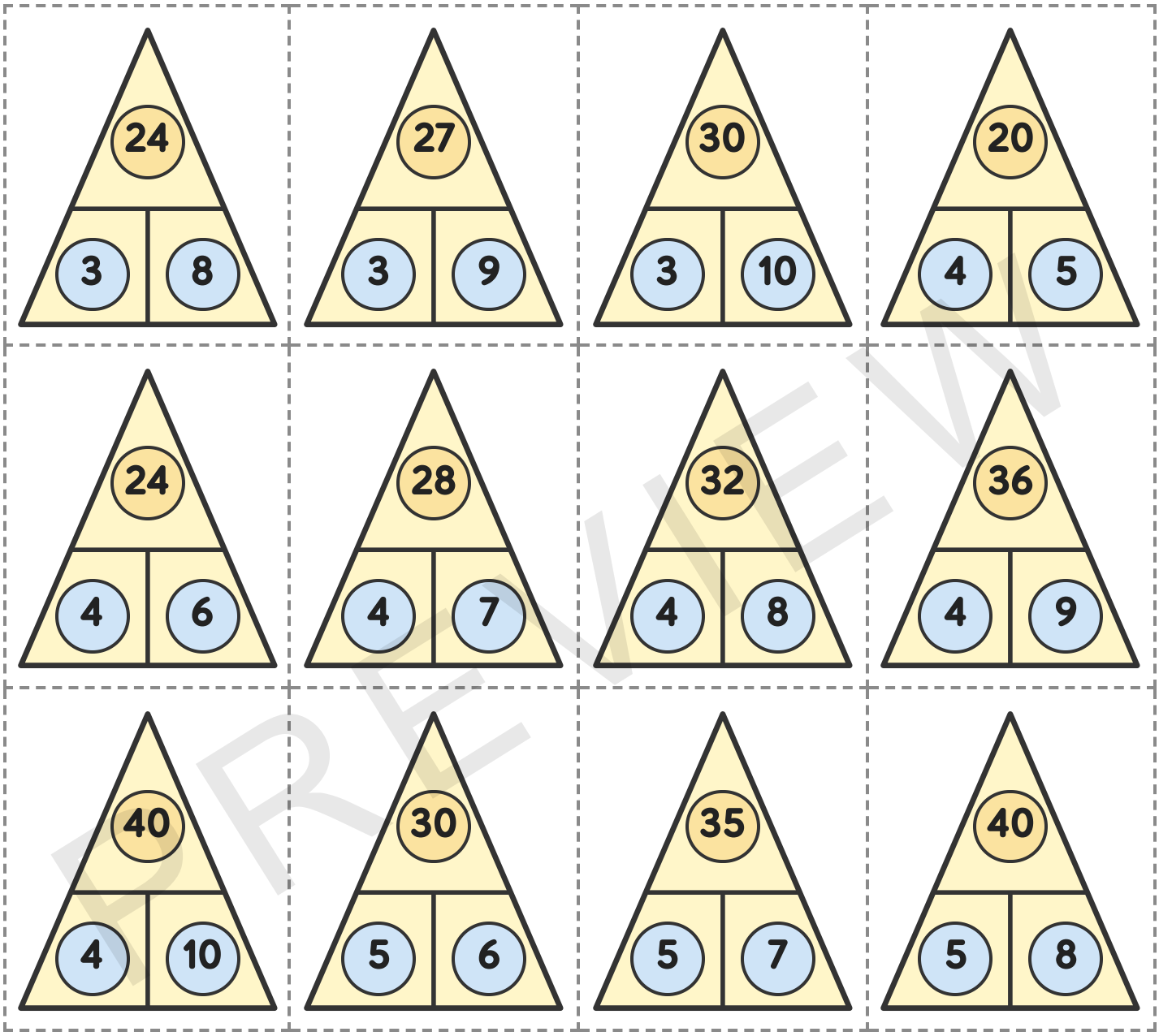
Remember

1. The big number goes at the top.
2. The two small numbers go at the bottom.
3. One triangle makes four facts: two with x and two with ÷.

PREVIEW

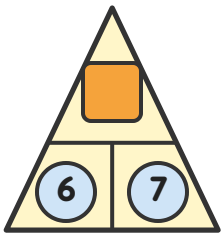
My name _____

Cut on the dashed lines.

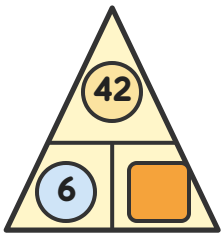


PREVIEW

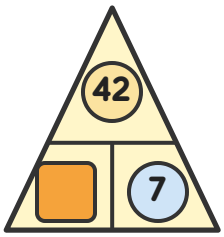
Cover one corner. What number is hiding? Say the fact.



6 x 7 = ?



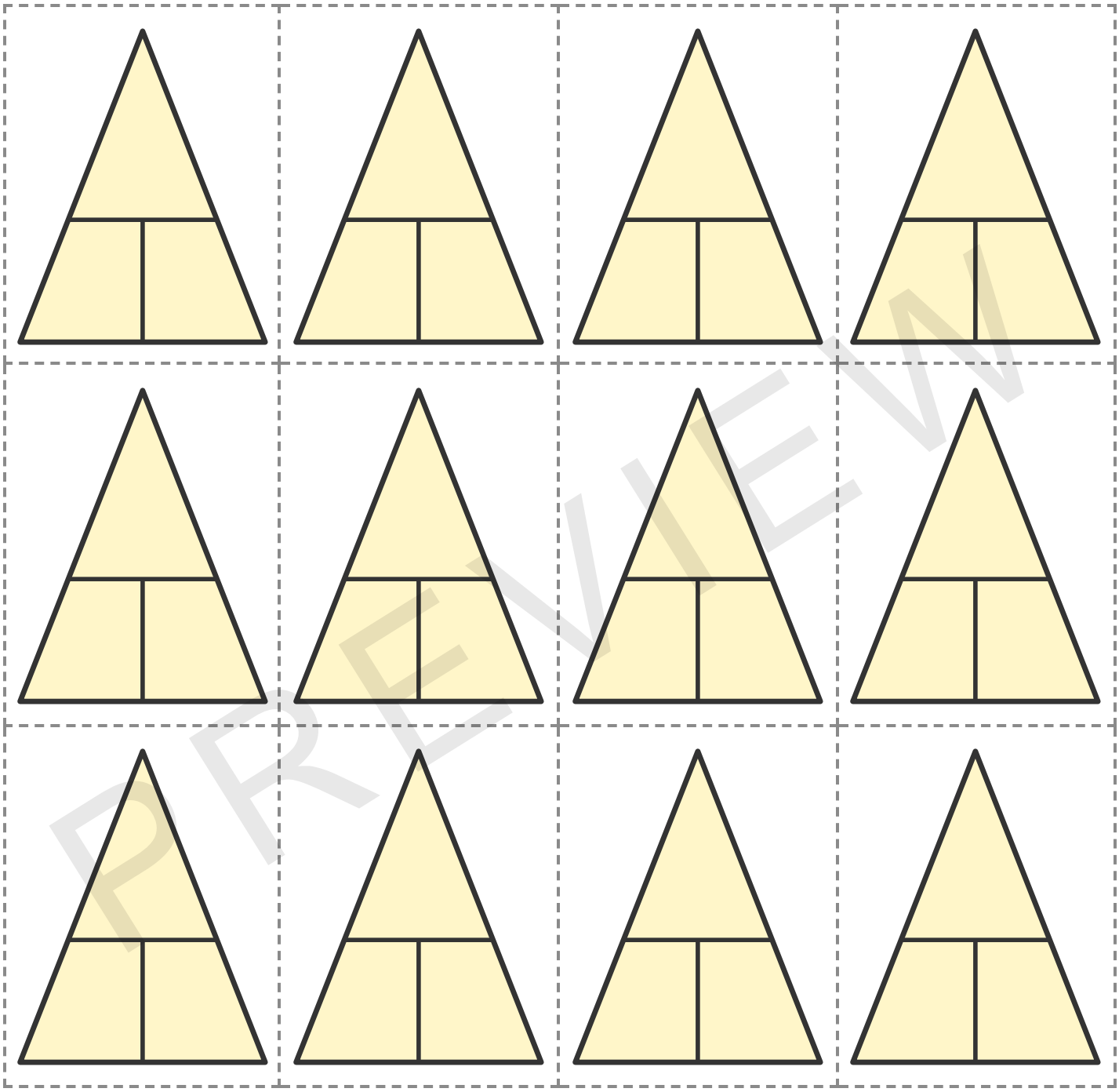
42 ÷ 6 = ?



42 ÷ 7 = ?

My name _____

Cut on the dashed lines. Write your numbers.



Top: the big number.

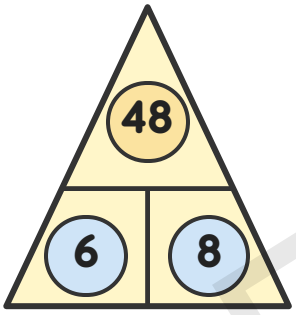
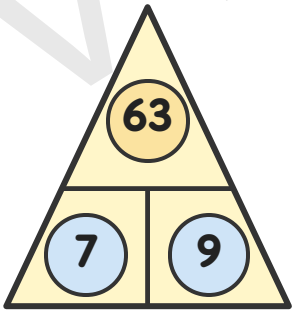
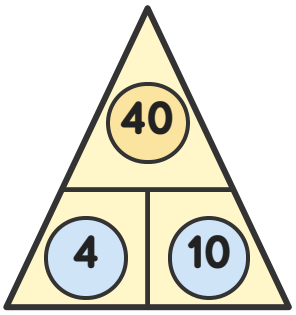
Bottom: the two numbers you multiply.

PREVIEW

My name _____

Fold. Write the four facts. Open to check.

Fact Family Triangles: Fold and Check

Check side	Write the facts here
6 x 8 = 48 8 x 6 = 48 48÷6 = 8 48÷8 = 6	 ☐ x ☐ = ☐ ☐ x ☐ = ☐ ☐ ÷ ☐ = ☐ ☐ ÷ ☐ = ☐
7 x 9 = 63 9 x 7 = 63 63÷7 = 9 63÷9 = 7	 ☐ x ☐ = ☐ ☐ x ☐ = ☐ ☐ ÷ ☐ = ☐ ☐ ÷ ☐ = ☐
4 x 10 = 40 10 x 4 = 40 40÷4 = 10 40÷10 = 4	 ☐ x ☐ = ☐ ☐ x ☐ = ☐ ☐ ÷ ☐ = ☐ ☐ ÷ ☐ = ☐

Fold back here

PREVIEW

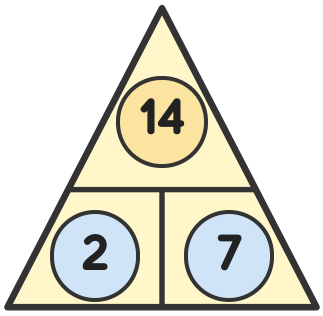
Preview · Bright Path Sped

My name _____

Look at the triangle. Write the four facts.

Fact Family Triangles: More Twos

1



Multiply

□ x □ = □

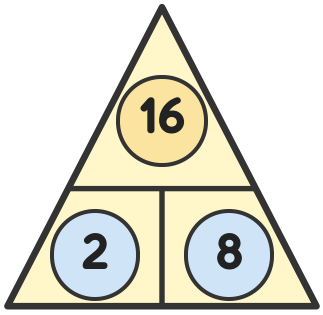
□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

2



Multiply

□ x □ = □

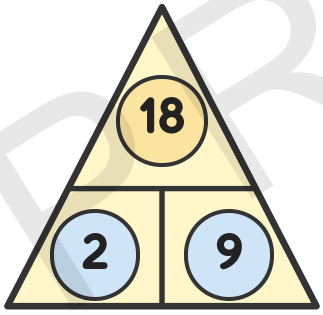
□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

3



Multiply

□ x □ = □

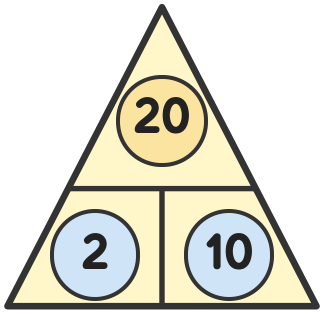
□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

4



Multiply

□ x □ = □

□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

PREVIEW

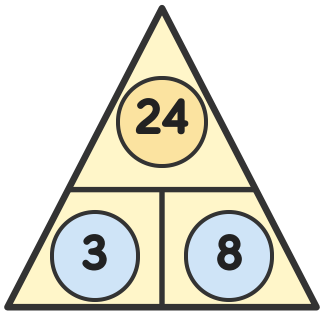
Preview · Bright Path Sped

My name _____

Look at the triangle. Write the four facts.

Fact Family Triangles: Threes and Fours

1



Multiply

□ x □ = □

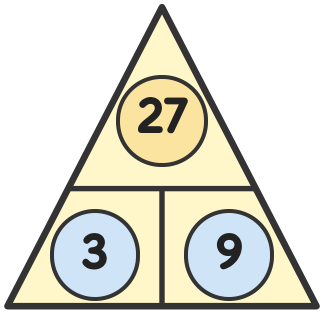
□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

2



Multiply

□ x □ = □

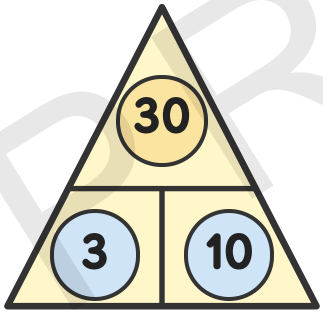
□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

3



Multiply

□ x □ = □

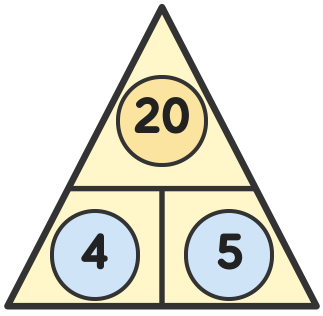
□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

4



Multiply

□ x □ = □

□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

PREVIEW

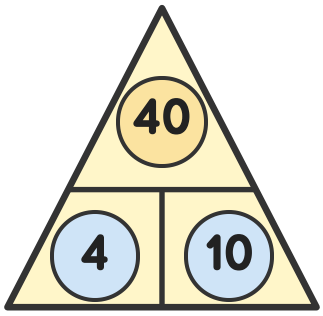
Preview · Bright Path Sped

My name _____

Look at the triangle. Write the four facts.

Fact Family Triangles: Fours and Fives

1



Multiply

□ x □ = □

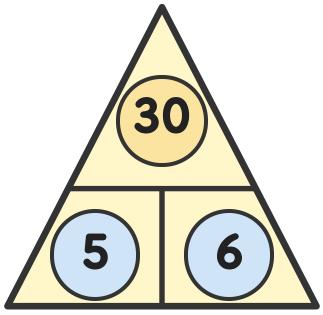
□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

2



Multiply

□ x □ = □

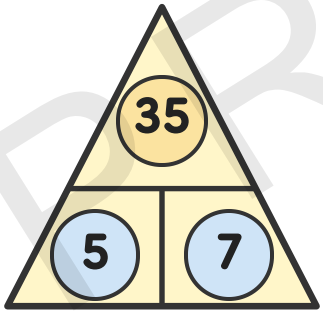
□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

3



Multiply

□ x □ = □

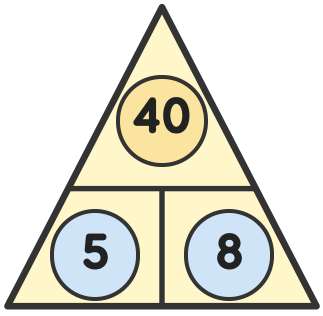
□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

4



Multiply

□ x □ = □

□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

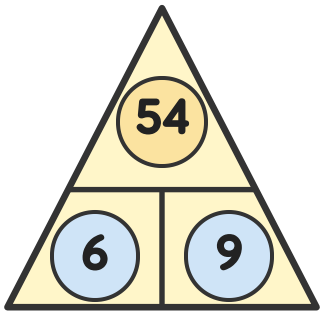
PREVIEW

My name _____

Look at the triangle. Write the four facts.

Fact Family Triangles: Sixes and Sevens

1



Multiply

□ x □ = □

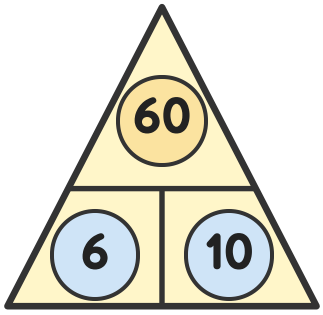
□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

2



Multiply

□ x □ = □

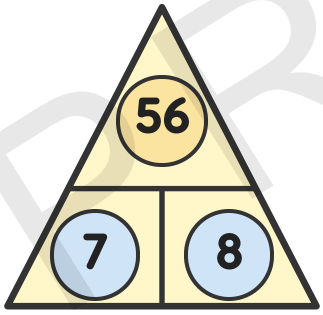
□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

3



Multiply

□ x □ = □

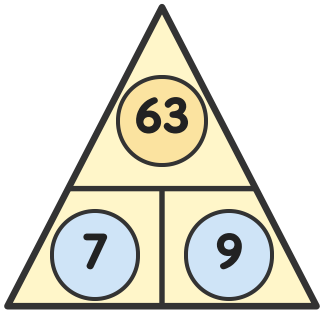
□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

4



Multiply

□ x □ = □

□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

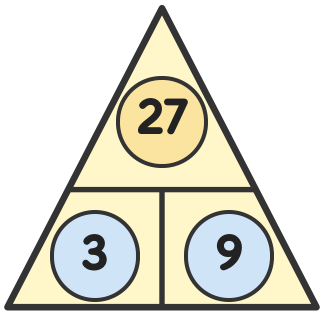
PREVIEW

My name _____

Look at the triangle. Write the four facts.

Fact Family Triangles: Mixed Review

1



Multiply

□ x □ = □

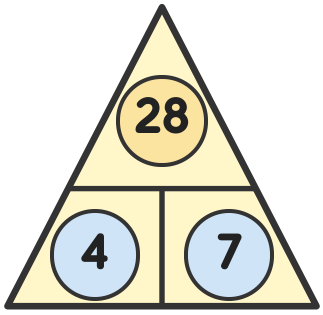
□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

2



Multiply

□ x □ = □

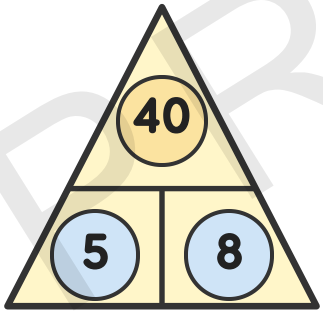
□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

3



Multiply

□ x □ = □

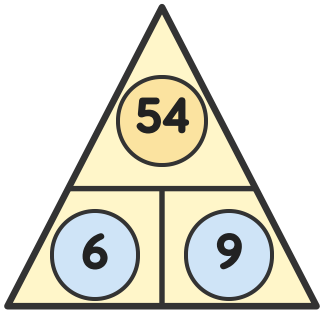
□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

4



Multiply

□ x □ = □

□ x □ = □

Divide

□ ÷ □ = □

□ ÷ □ = □

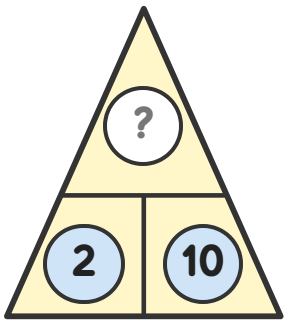
PREVIEW

My name _____

Find the ? number. Write it in the box.

Fact Family Triangles: Missing Number

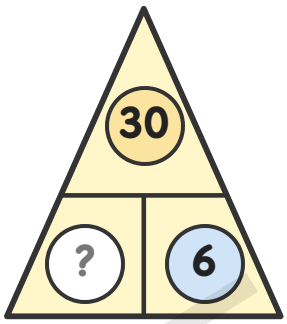
1



2 x 10 = ☐

10 x 2 = ☐

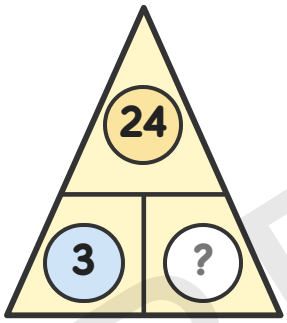
2



6 x ☐ = 30

30 ÷ 6 = ☐

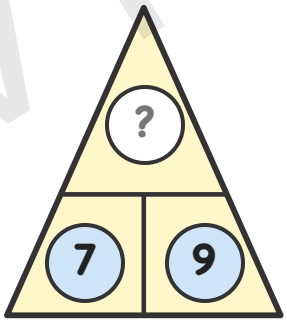
3



3 x ☐ = 24

24 ÷ 3 = ☐

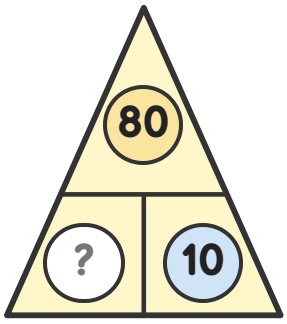
4



7 x 9 = ☐

9 x 7 = ☐

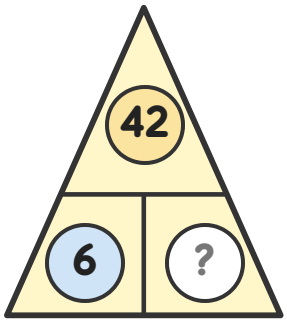
5



10 x ☐ = 80

80 ÷ 10 = ☐

6

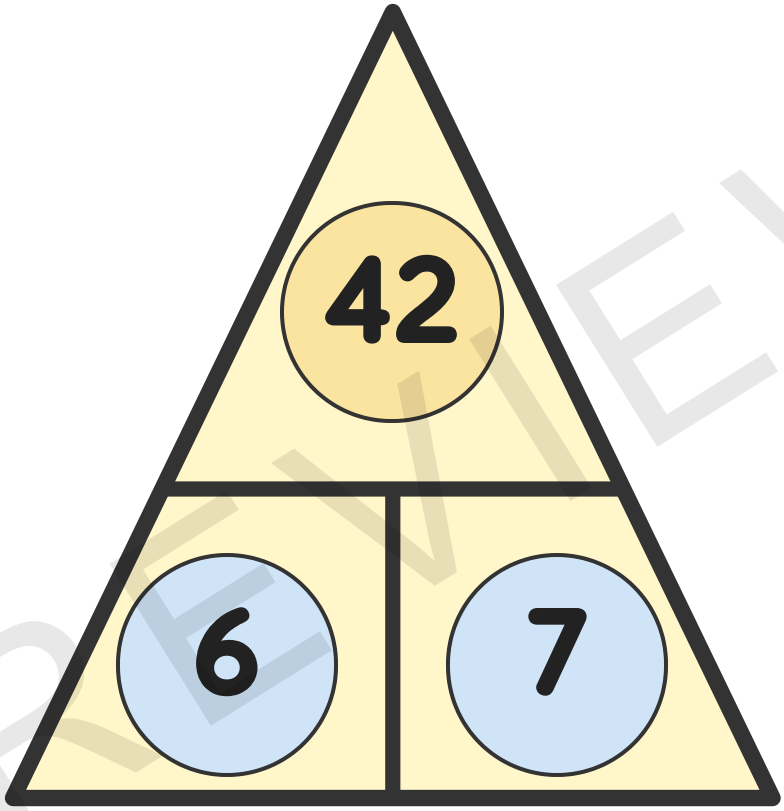


6 x ☐ = 42

42 ÷ 6 = ☐

PREVIEW

One Triangle, Four Facts



PREVIEW

$6 \times 7 = 42$ $7 \times 6 = 42$

$42 \div 6 = 7$ $42 \div 7 = 6$

Big number on top. Two small numbers on the bottom.

Preview · Bright Path Sped

Answer Key 2

Each line is for the triangle with that number on its page.

Page 18: Fives and Sixes

1) 5 x 9 = 45, 9 x 5 = 45, 45 ÷ 5 = 9, 45 ÷ 9 = 5

2) 5 x 10 = 50, 10 x 5 = 50, 50 ÷ 5 = 10, 50 ÷ 10 = 5

3) 6 x 7 = 42, 7 x 6 = 42, 42 ÷ 6 = 7, 42 ÷ 7 = 6

4) 6 x 8 = 48, 8 x 6 = 48, 48 ÷ 6 = 8, 48 ÷ 8 = 6

Page 19: Sixes and Sevens

1) 6 x 9 = 54, 9 x 6 = 54, 54 ÷ 6 = 9, 54 ÷ 9 = 6

2) 6 x 10 = 60, 10 x 6 = 60, 60 ÷ 6 = 10, 60 ÷ 10 = 6

3) 7 x 8 = 56, 8 x 7 = 56, 56 ÷ 7 = 8, 56 ÷ 8 = 7

4) 7 x 9 = 63, 9 x 7 = 63, 63 ÷ 7 = 9, 63 ÷ 9 = 7

Page 20: Sevens to Nines

1) 7 x 10 = 70, 10 x 7 = 70, 70 ÷ 7 = 10, 70 ÷ 10 = 7

2) 8 x 9 = 72, 9 x 8 = 72, 72 ÷ 8 = 9, 72 ÷ 9 = 8

3) 8 x 10 = 80, 10 x 8 = 80, 80 ÷ 8 = 10, 80 ÷ 10 = 8

4) 9 x 10 = 90, 10 x 9 = 90, 90 ÷ 9 = 10, 90 ÷ 10 = 9

Page 21: Mixed Review

1) 3 x 9 = 27, 9 x 3 = 27, 27 ÷ 3 = 9, 27 ÷ 9 = 3

2) 4 x 7 = 28, 7 x 4 = 28, 28 ÷ 4 = 7, 28 ÷ 7 = 4

3) 5 x 8 = 40, 8 x 5 = 40, 40 ÷ 5 = 8, 40 ÷ 8 = 5

4) 6 x 9 = 54, 9 x 6 = 54, 54 ÷ 6 = 9, 54 ÷ 9 = 6

Page 10: Fold and Check 1

1) 3 x 4 = 12, 4 x 3 = 12, 12 ÷ 3 = 4, 12 ÷ 4 = 3

2) 2 x 9 = 18, 9 x 2 = 18, 18 ÷ 2 = 9, 18 ÷ 9 = 2

3) 5 x 6 = 30, 6 x 5 = 30, 30 ÷ 5 = 6, 30 ÷ 6 = 5

Page 11: Fold and Check 2

1) 6 x 8 = 48, 8 x 6 = 48, 48 ÷ 6 = 8, 48 ÷ 8 = 6

2) 7 x 9 = 63, 9 x 7 = 63, 63 ÷ 7 = 9, 63 ÷ 9 = 7

3) 4 x 10 = 40, 10 x 4 = 40, 40 ÷ 4 = 10, 40 ÷ 10 = 4

PREVIEW

Fact Triangles at Home

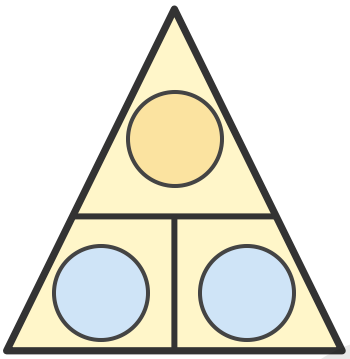
Send this page home with a child, or hand it to a family at a conference.

Student _____ Week of _____

How to help at home, in three steps

- Pick two numbers to multiply, such as 6 and 7. Write 42 at the top of the triangle and 6 and 7 at the bottom.
- Say the four facts out loud: 6 times 7 is 42, 7 times 6 is 42, 42 divided by 6 is 7, 42 divided by 7 is 6.
- Cover one corner with a finger and ask what number is hiding.

Our family triangle



Multiply

☐ × ☐ = ☐

☐ × ☐ = ☐

Divide

☐ ÷ ☐ = ☐

☐ ÷ ☐ = ☐

Try saying

- "Which number is the biggest? It goes at the top."
- "What fact can you make with the other two?"

Note from the teacher

Note from home

PREVIEW