



Every fact family within 10 no cutting · keep it on the fridge

makes 2 to 4					
makes 5 or 6					
makes 7					
makes 8					
makes 9					
makes 10					

Zero fact families: 0, 5, 5 → $5 + 0 = 5$, $0 + 5 = 5$, $5 - 0 = 5$, $5 - 5 = 0$. Every number has one.

The top number is the whole. The small facts are for grown-ups to check with.



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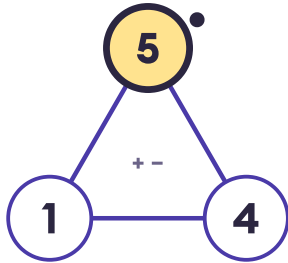




Write the fact family: part 1 2 adding facts, then 2 taking-away facts

One family is a double: it needs only 2 lines. Cross out the others.

1



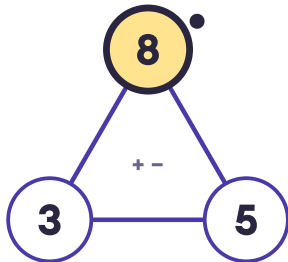
$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

2



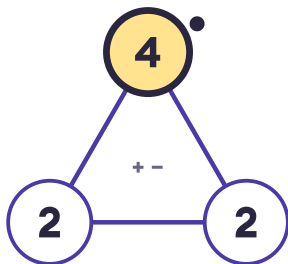
$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

3



$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

Answers on page 12.



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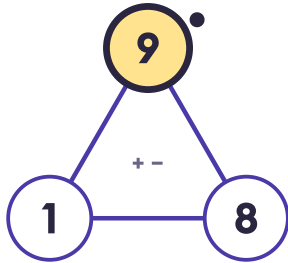




Write the fact family: part 2 2 adding facts, then 2 taking-away facts

One family has a 0 in it. It still makes 4 facts.

1



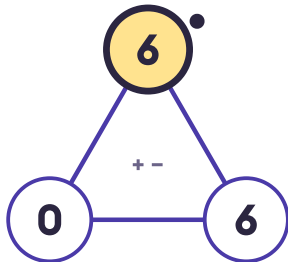
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$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

2



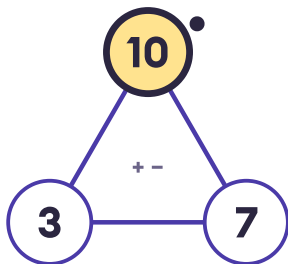
$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

3



$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

Answers on page 12.



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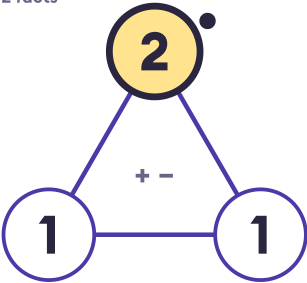
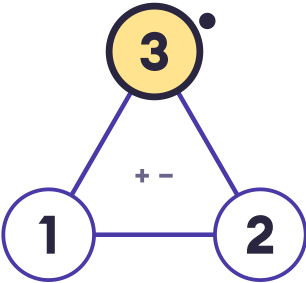
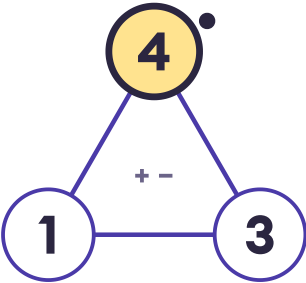
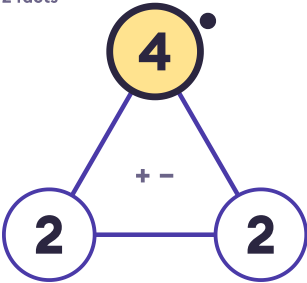
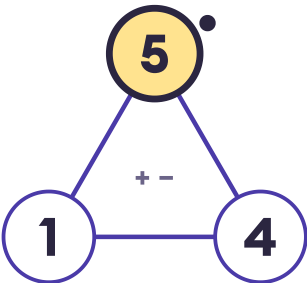
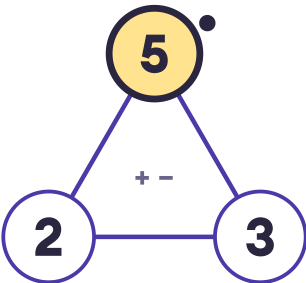
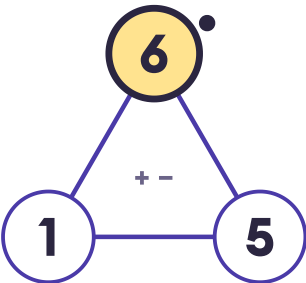
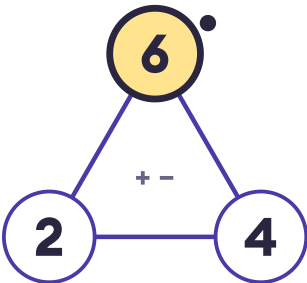
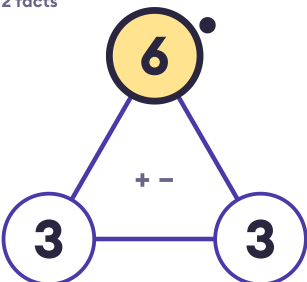
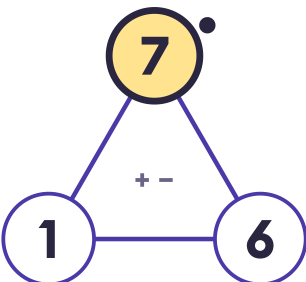
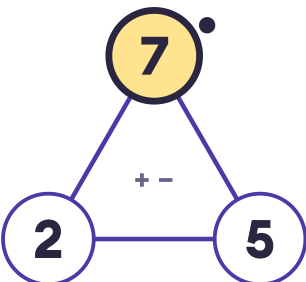
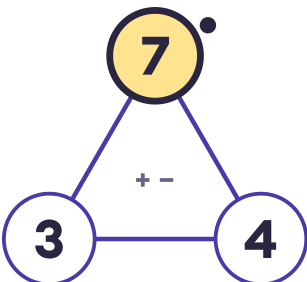
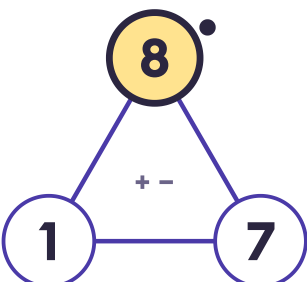
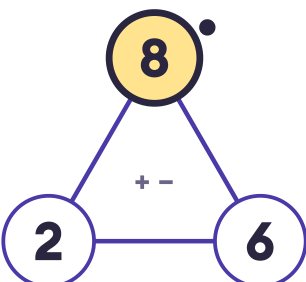
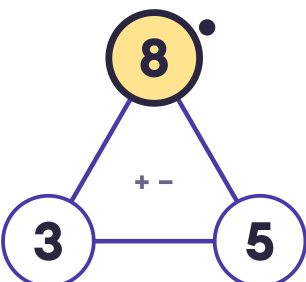
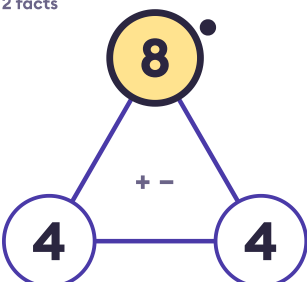
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Fact family triangle cards: 2 to 8 cut-out cards

Cover the top: say the + facts. **Cover a bottom corner:** say the - fact. **Missed one?** Say the other facts on the card, then try it again.

2 facts 			2 facts 
			
2 facts 			
			2 facts 



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Fact family triangle cards: 9 and 10 cut-out cards

Cover the top: say the + facts. **Cover a bottom corner:** say the - fact. **Blank cards:** make your own, like 0, 6, 6.

2 facts 			



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Fact family houses complete the fact family: write the 4 facts

One house is a double. It only needs 2 floors: cross out the ones you don't need. Answers on page 12.

7

2 5

	+		=	
	+		=	
	-		=	
	-		=	

9

3 6

	+		=	
	+		=	
	-		=	
	-		=	

10

4 6

	+		=	
	+		=	
	-		=	
	-		=	

8

1 7

	+		=	
	+		=	
	-		=	
	-		=	

6

2 4

	+		=	
	+		=	
	-		=	
	-		=	

6

3 3

	+		=	
	+		=	
	-		=	
	-		=	



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Domino fact families the two halves are the parts

Doubles make only 2 facts. Cross out the lines you don't need. Answers on page 12.

1			$\square + \square = \square$	$\square + \square = \square$
			$\square - \square = \square$	$\square - \square = \square$
2			$\square + \square = \square$	$\square + \square = \square$
			$\square - \square = \square$	$\square - \square = \square$
3			$\square + \square = \square$	$\square + \square = \square$
			$\square - \square = \square$	$\square - \square = \square$
4			$\square + \square = \square$	$\square + \square = \square$
			$\square - \square = \square$	$\square - \square = \square$
5			$\square + \square = \square$	$\square + \square = \square$
			$\square - \square = \square$	$\square - \square = \square$



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Is it a fact family? three numbers, one check

A. Is it a fact family? Circle **yes** or **no**. Answers on page 12.

1 **3, 5, 8** yes no

5 **1, 9, 10** yes no

2 **3, 5, 7** yes no

6 **2, 4, 7** yes no

3 **2, 6, 8** yes no

7 **5, 5, 10** yes no

4 **4, 5, 10** yes no

8 **0, 6, 6** yes no

Tip: do the two small numbers make the big one?

B. **Fix the mistake.** One fact in each row is wrong. Cross it out, then write the right fact.

1 **3, 5, 8** $3 + 5 = 8$ $5 + 3 = 8$ $8 - 3 = 5$ $3 - 5 = 2$

The right fact:

- =

2 **2, 7, 9** $2 + 7 = 9$ $7 + 2 = 8$ $9 - 2 = 7$ $9 - 7 = 2$

The right fact:

+ =

3 **4, 6, 10** $4 + 6 = 10$ $6 + 4 = 10$ $10 - 6 = 4$ $10 - 4 = 5$

The right fact:

- =

4 **1, 6, 7** $1 + 6 = 7$ $6 + 1 = 7$ $7 - 1 = 6$ $7 - 6 = 2$

The right fact:

- =



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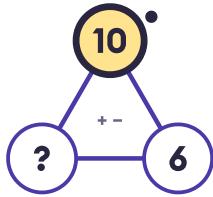
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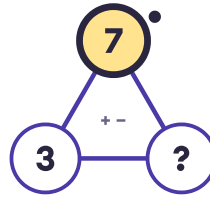
Find the hidden number missing addends and missing numbers

1



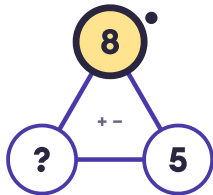
$$6 + \square = 10$$

2



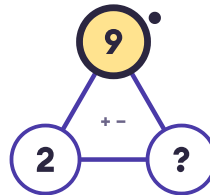
$$\square + 3 = 7$$

3



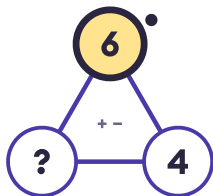
$$5 + \square = 8$$

4



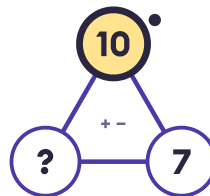
$$\square + 2 = 9$$

5



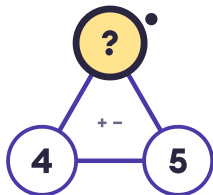
$$4 + \square = 6$$

6



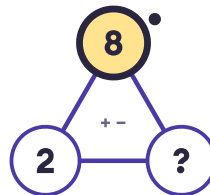
$$10 - \square = 7$$

7



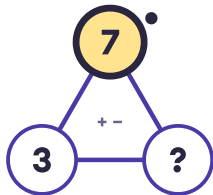
$$\square - 4 = 5$$

8



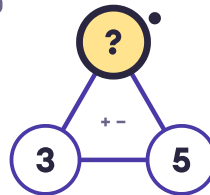
$$8 - \square = 2$$

9



$$7 = 3 + \square$$

10



$$5 = \square - 3$$

Stuck? The ? on the triangle is the number in the box. Answers on page 12.



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Bigger fact families: 11 to 18

later in 1st grade • cut-out cards

			2 facts
	2 facts 		
	2 facts 		2 facts



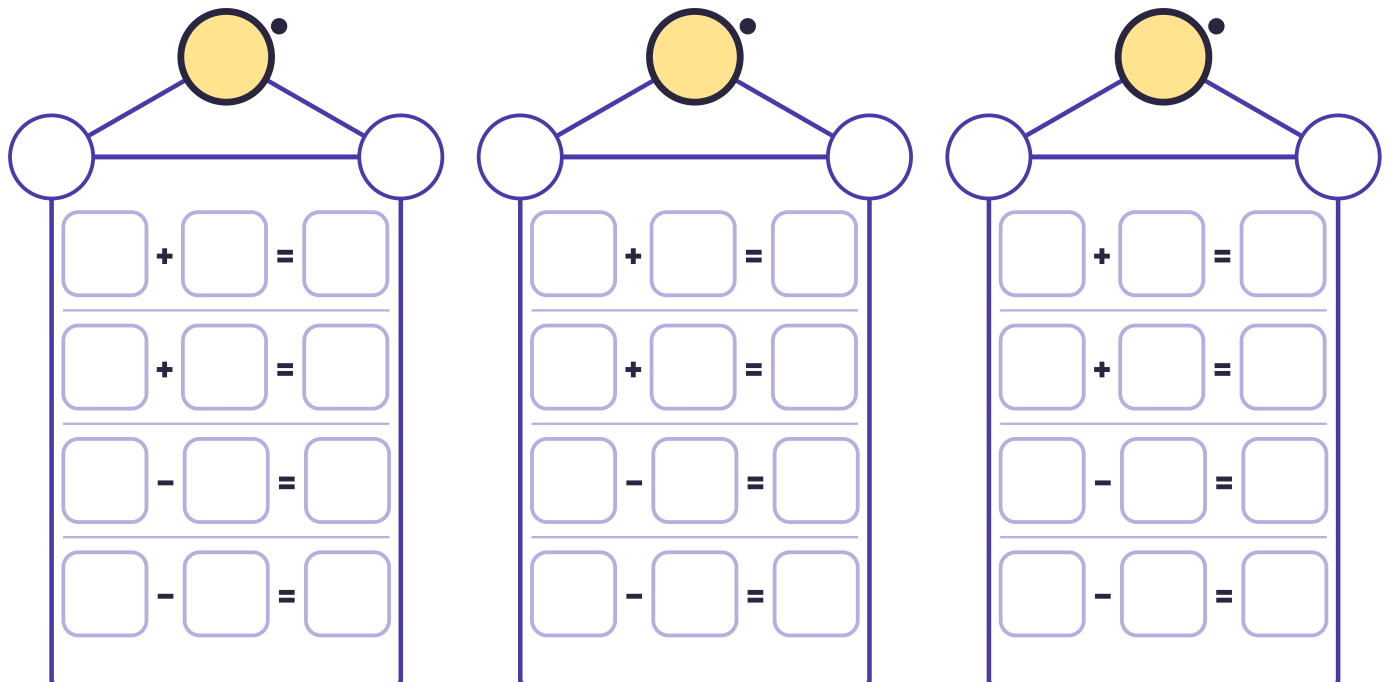
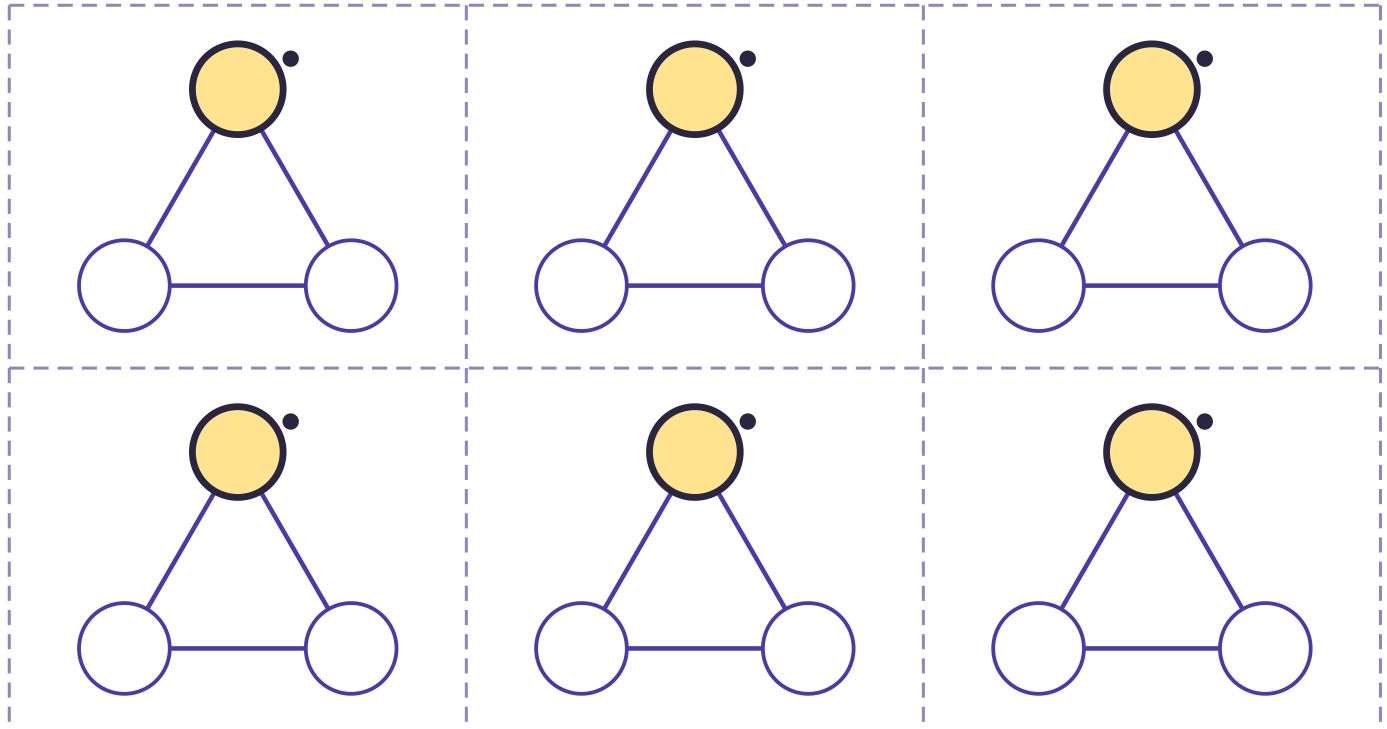
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Blank fact family triangles and houses templates for any numbers



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Answer key for grown-ups

Page 2

1, 4, 5: $1 + 4 = 5$ · $4 + 1 = 5$ · $5 - 4 = 1$ · $5 - 1 = 4$
3, 5, 8: $3 + 5 = 8$ · $5 + 3 = 8$ · $8 - 5 = 3$ · $8 - 3 = 5$
2, 2, 4: $2 + 2 = 4$ · $4 - 2 = 2$ (2 facts)

Page 3

1, 8, 9: $1 + 8 = 9$ · $8 + 1 = 9$ · $9 - 8 = 1$ · $9 - 1 = 8$
0, 6, 6: $0 + 6 = 6$ · $6 + 0 = 6$ · $6 - 6 = 0$ · $6 - 0 = 6$
3, 7, 10: $3 + 7 = 10$ · $7 + 3 = 10$ · $10 - 7 = 3$ · $10 - 3 = 7$

Page 6

2, 5, 7: $2 + 5 = 7$ · $5 + 2 = 7$ · $7 - 5 = 2$ · $7 - 2 = 5$
3, 6, 9: $3 + 6 = 9$ · $6 + 3 = 9$ · $9 - 6 = 3$ · $9 - 3 = 6$
4, 6, 10: $4 + 6 = 10$ · $6 + 4 = 10$ · $10 - 6 = 4$ · $10 - 4 = 6$
1, 7, 8: $1 + 7 = 8$ · $7 + 1 = 8$ · $8 - 7 = 1$ · $8 - 1 = 7$
2, 4, 6: $2 + 4 = 6$ · $4 + 2 = 6$ · $6 - 4 = 2$ · $6 - 2 = 4$
3, 3, 6: $3 + 3 = 6$ · $6 - 3 = 3$ (2 facts)

Page 7

2, 5, 7: $2 + 5 = 7$ · $5 + 2 = 7$ · $7 - 5 = 2$ · $7 - 2 = 5$
3, 4, 7: $3 + 4 = 7$ · $4 + 3 = 7$ · $7 - 4 = 3$ · $7 - 3 = 4$
2, 6, 8: $2 + 6 = 8$ · $6 + 2 = 8$ · $8 - 6 = 2$ · $8 - 2 = 6$
1, 5, 6: $1 + 5 = 6$ · $5 + 1 = 6$ · $6 - 5 = 1$ · $6 - 1 = 5$
4, 4, 8: $4 + 4 = 8$ · $8 - 4 = 4$ (2 facts)

Page 8 A

1: yes · 2: no · 3: yes · 4: no · 5: yes · 6: no · 7: yes (2 facts) · 8: yes

Page 8 B

1: $8 - 5 = 3$ · 2: $7 + 2 = 9$ · 3: $10 - 4 = 6$ · 4: $7 - 6 = 1$

Page 9

1: 4 · 2: 4 · 3: 3 · 4: 7 · 5: 2 · 6: 3 · 7: 9 · 8: 6 · 9: 4 · 10: 8

Pages 4, 5 and 10

Pages 4 and 5: check with page 1. Page 10: the two bottom numbers add up to the top number.



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