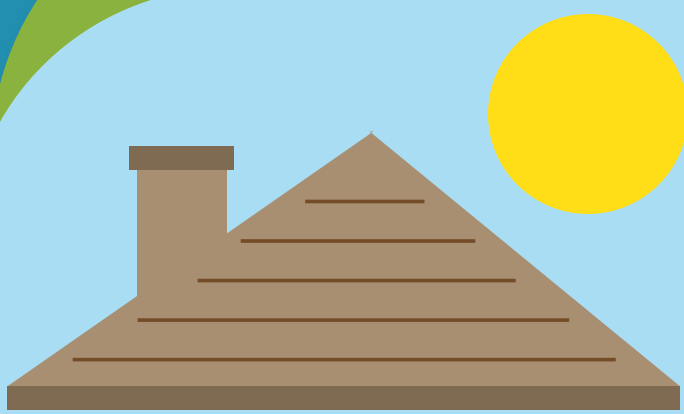
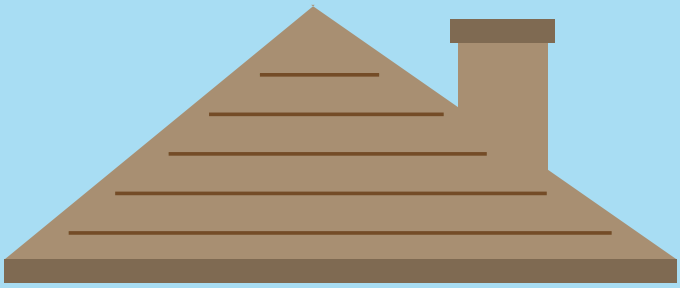
All In The Fact Family

1st GRADE





$8 + 6 = 14$

$6 + 8 = 14$

$14 - 8 = __$

$__ - __ = __$

$3 + \square = 10$

$7 + 3 = 10$

$\square - 3 = 7$

$10 - 7 = 3$

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ADDITION AND SUBTRACTION CONNECTIONS 1

In math, we say that subtraction is the ***inverse*** of addition. That means that they are opposites... they ***undo*** each other. You can subtract to double check an addition problem.

EXAMPLE: If you know that 3 + 7 = 10... then you can subtract using those same numbers to check your thinking: 10 - 7 = 3 or 10 - 3 = 7!

DIRECTIONS: Find the missing number in the first column and complete the addition number sentence. Then subtract to double check your thinking. Write a subtraction number sentence in the blank box to show the ***inverse*** of what you added.

If 6 + 4 = 10	then 10 - 4 = 6 *(or 10 - 6 = 4)
If 8 + _____ = 10	then
If 12 + _____ = 17	then
If 3 + _____ = 12	then
If 9 + _____ = 13	then
If 7 + _____ = 9	then
If 8 + _____ = 11	then
If 2 + _____ = 8	then
If 4 + _____ = 16	then
If 5 + _____ = 14	then

* Children do not have to write both subtraction options in their answer.

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ADDITION AND SUBTRACTION CONNECTIONS 2

In math, we say that addition is the ***inverse*** of subtraction. That means that they are opposites... they ***undo*** each other. You can add to double check any subtraction problem.

EXAMPLE: If you know that 8 - 6 = 2... then you can add using those same numbers to check your thinking: 2 + 6 = 8 or 6 + 2 = 8!

DIRECTIONS: Find the missing number in the first column and complete the subtraction number sentence. Then add to double check your thinking. Write an addition number sentence in the blank box to show the ***inverse*** of what you subtracted.

If 10 - 4 = 6	then 4 + 6 = 10 *(or 6 + 4 = 10)
If 8 - _____ = 3	then
If 15 - _____ = 10	then
If 11 - _____ = 4	then
If 9 - _____ = 2	then
If 12 - _____ = 8	then
If 17 - _____ = 11	then
If 13 - _____ = 7	then
If 24 - _____ = 14	then
If 14 - _____ = 9	then

* Children do not have to write both subtraction options in their answer.

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INVERSE ADDITION PRACTICE

The missing number in these addition problems all come at the beginning of the number sentences. Can you work backwards using the ***inverse operation*** (subtraction) to complete each problem? Give it a try!

1. _____ + 3 = 6
2. _____ + 8 = 11
3. _____ + 1 = 3
4. _____ + 10 = 17
5. _____ + 5 = 8
6. _____ + 10 = 12
7. _____ + 4 = 8
8. _____ + 9 = 15
9. _____ + 2 = 10
10. _____ + 14 = 18
11. _____ + 11 = 13
12. _____ + 3 = 5
13. _____ + 12 = 16
14. _____ + 2 = 7
15. _____ + 13 = 14
16. _____ + 5 = 9
17. _____ + 6 = 19
18. _____ + 7 = 20

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INVERSE SUBTRACTION PRACTICE

The missing number in these subtraction problems all come at the beginning of the number sentences. Can you work backwards using the ***inverse operation*** (addition) to complete each problem? Give it a try!

1. _____ - 9 = 8
2. _____ - 4 = 14
3. _____ - 6 = 11
4. _____ - 1 = 17
5. _____ - 10 = 2
6. _____ - 4 = 12
7. _____ - 2 = 16
8. _____ - 12 = 5
9. _____ - 8 = 9
10. _____ - 16 = 3
11. _____ - 3 = 6
12. _____ - 7 = 10
13. _____ - 3 = 15
14. _____ - 11 = 4
15. _____ - 2 = 18
16. _____ - 5 = 7
17. _____ - 1 = 19
18. _____ - 5 = 13

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ADDITION AND SUBTRACTION CHALLENGE:

INVERSE OPERATIONS!

Look carefully at these addition and subtraction problems. Fill in what is missing to complete the inverse operation. Can you follow the pattern?

1	20 + 7 = 27	so then	27 - 7 = 20
2	18 + 5 = 23	so then	23 - 5 = ☐
3	39 + 8 = ☐	so then	47 - 8 = ☐
4	56 + ☐ = 60	so then	60 - ☐ = 56
5	66 + 10 = ☐	so then	☐ - 10 = 66
6	100 + ☐ = 150	so then	150 - ☐ = 100
7	200 + 100 = ☐	so then	300 - 200 = ☐
8	125 + ☐ = 140	so then	140 - ☐ = 125
9	92 + 11 = ☐	so then	☐ - 11 = 92

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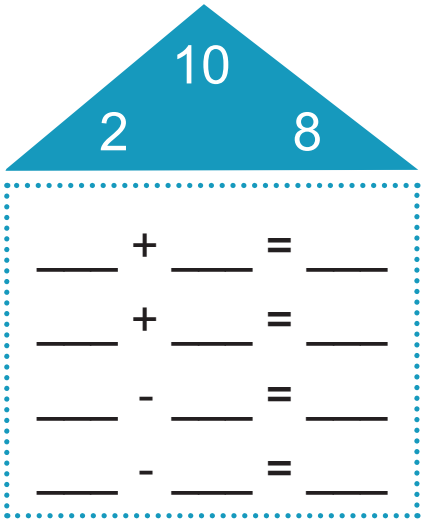
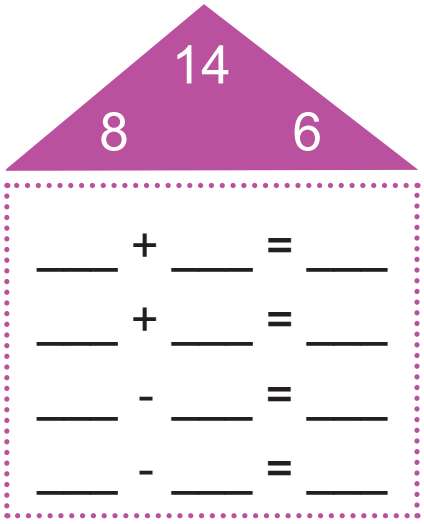
FACT FAMILY HOUSES

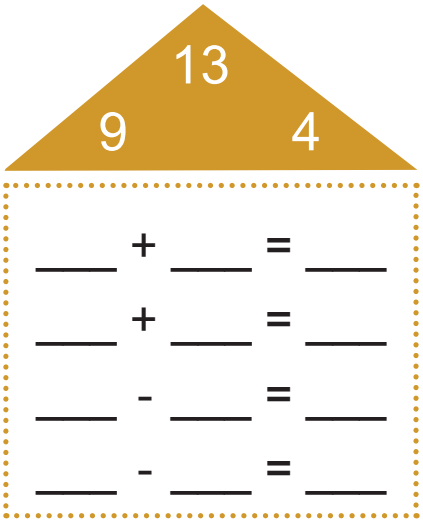
Each triangle contains the numbers in a ***fact family***. Add or subtract using the three numbers.



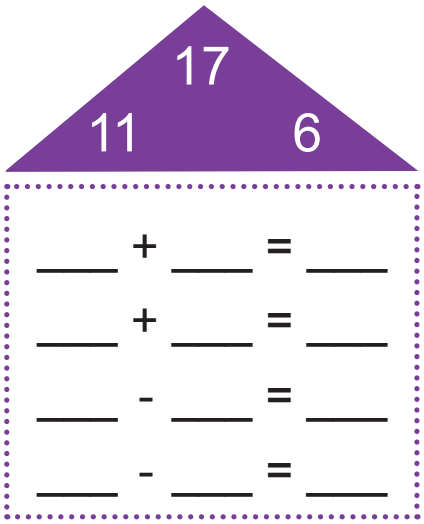
___ + ___ = ___
___ + ___ = ___
___ - ___ = ___
___ - ___ = ___



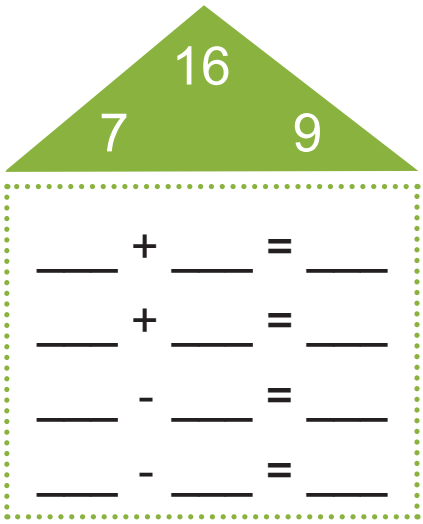
___ + ___ = ___
___ + ___ = ___
___ - ___ = ___
___ - ___ = ___



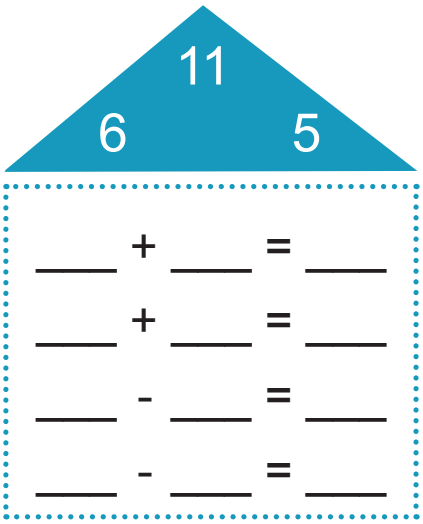
___ + ___ = ___
___ + ___ = ___
___ - ___ = ___
___ - ___ = ___



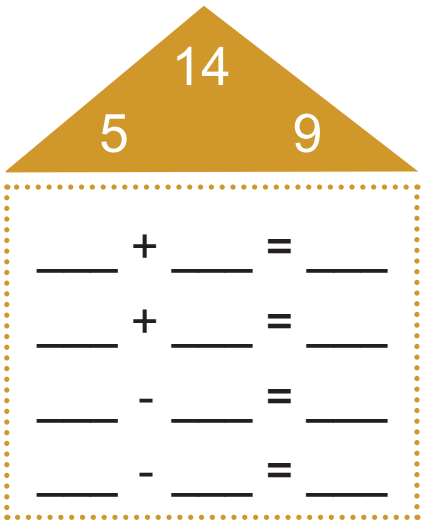
___ + ___ = ___
___ + ___ = ___
___ - ___ = ___
___ - ___ = ___



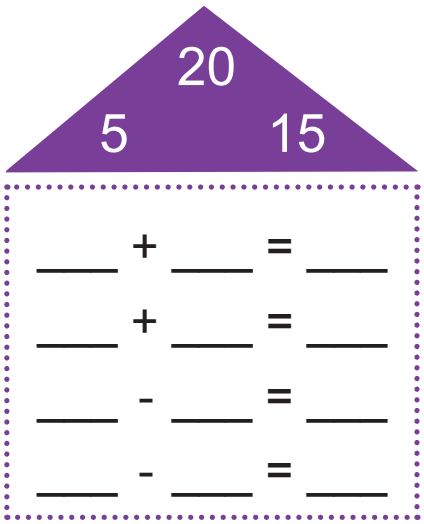
___ + ___ = ___
___ + ___ = ___
___ - ___ = ___
___ - ___ = ___



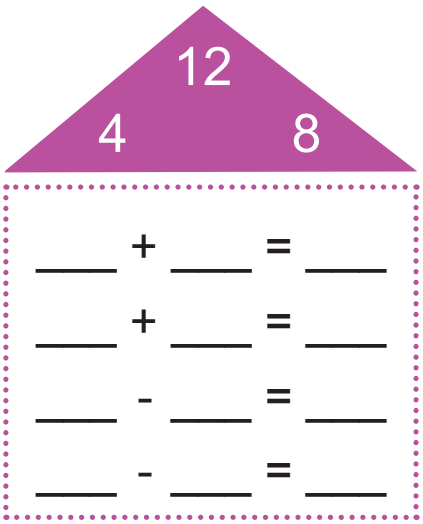
___ + ___ = ___
___ + ___ = ___
___ - ___ = ___
___ - ___ = ___



___ + ___ = ___
___ + ___ = ___
___ - ___ = ___
___ - ___ = ___



___ + ___ = ___
___ + ___ = ___
___ - ___ = ___
___ - ___ = ___



___ + ___ = ___
___ + ___ = ___
___ - ___ = ___
___ - ___ = ___

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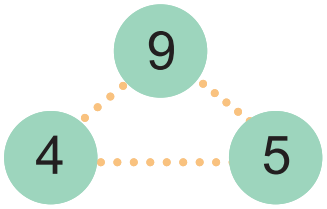
FACT FAMILIES

Each rectangle contains the numbers in a ***fact family***. Add or subtract using the three numbers.

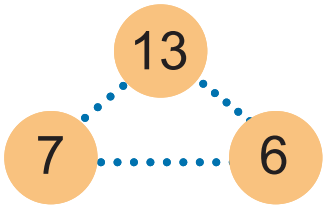


____ + ____ = ____

____ + ____ = ____

____ - ____ = ____

____ - ____ = ____

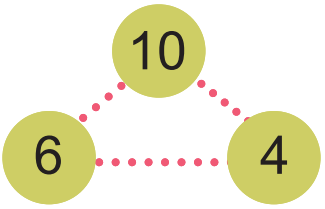


____ + ____ = ____

____ + ____ = ____

____ - ____ = ____

____ - ____ = ____

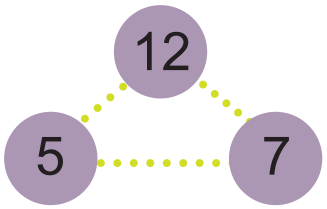


____ + ____ = ____

____ + ____ = ____

____ - ____ = ____

____ - ____ = ____

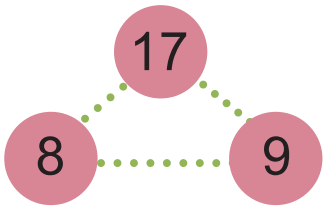


____ + ____ = ____

____ + ____ = ____

____ - ____ = ____

____ - ____ = ____

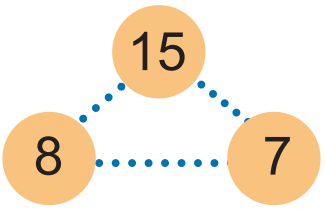


____ + ____ = ____

____ + ____ = ____

____ - ____ = ____

____ - ____ = ____

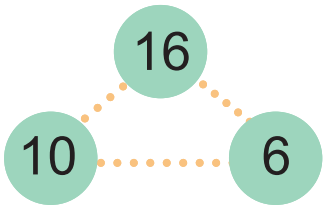


____ + ____ = ____

____ + ____ = ____

____ - ____ = ____

____ - ____ = ____

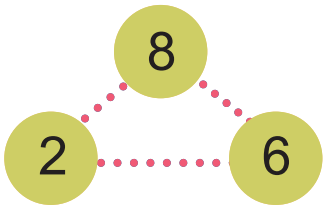


____ + ____ = ____

____ + ____ = ____

____ - ____ = ____

____ - ____ = ____

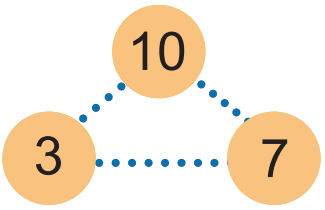


____ + ____ = ____

____ + ____ = ____

____ - ____ = ____

____ - ____ = ____



____ + ____ = ____

____ + ____ = ____

____ - ____ = ____

____ - ____ = ____

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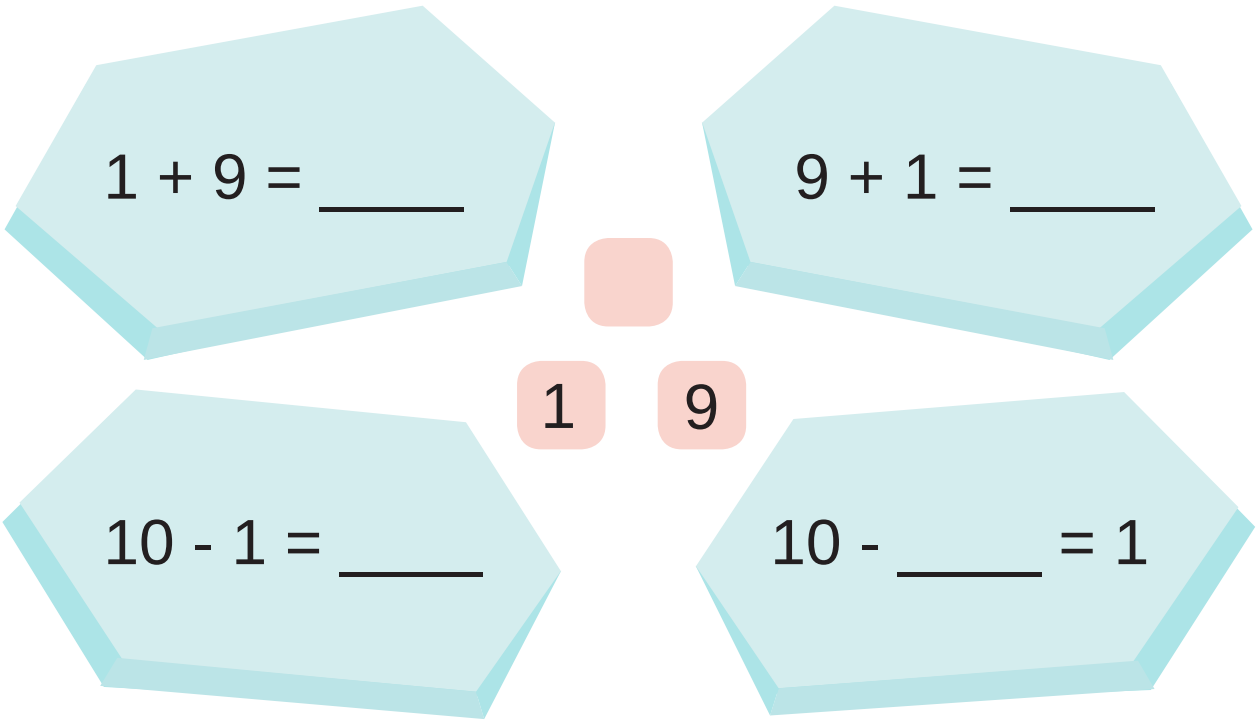
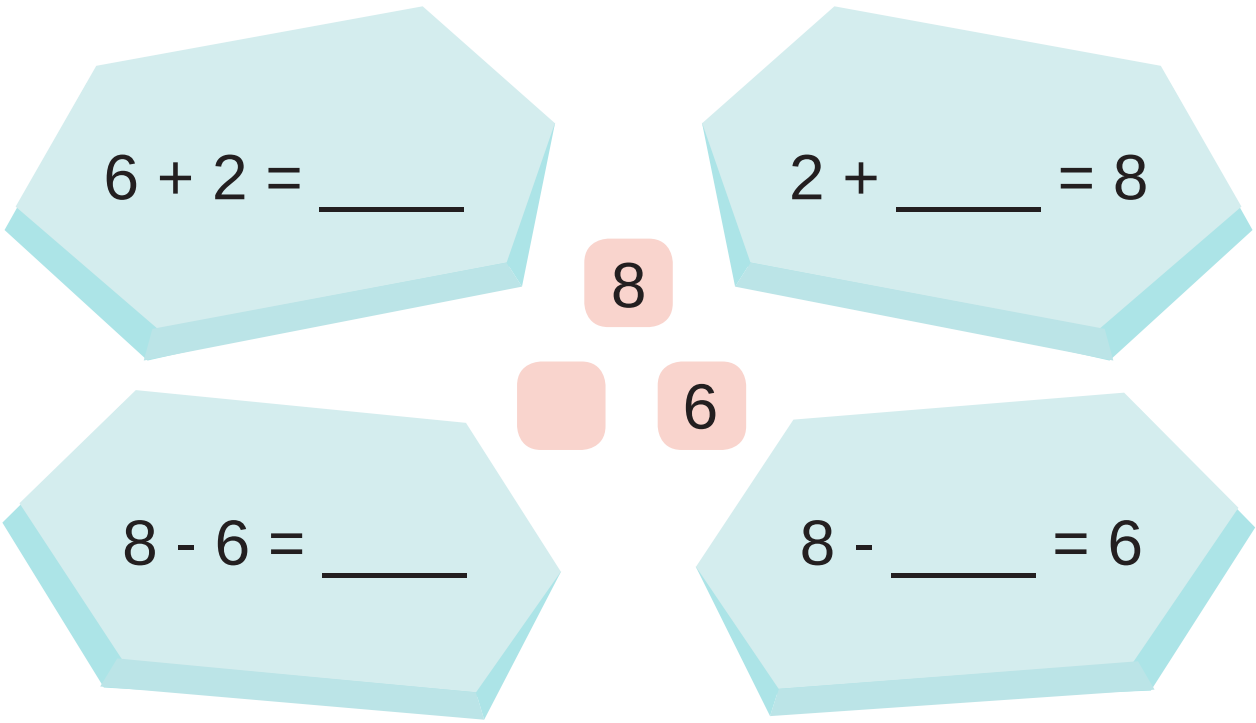
ICY FACT FAMILIES

Fill in the missing numbers in the addition and subtraction problems. Then finish the fact families by writing the missing numbers.





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4 + 3 = _____

3 + _____ = 7

3 4

7 - 4 = _____

7 - _____ = 4

3 + 2 = _____

2 + _____ = 5

5 3

5 - 3 = _____

5 - _____ = 3

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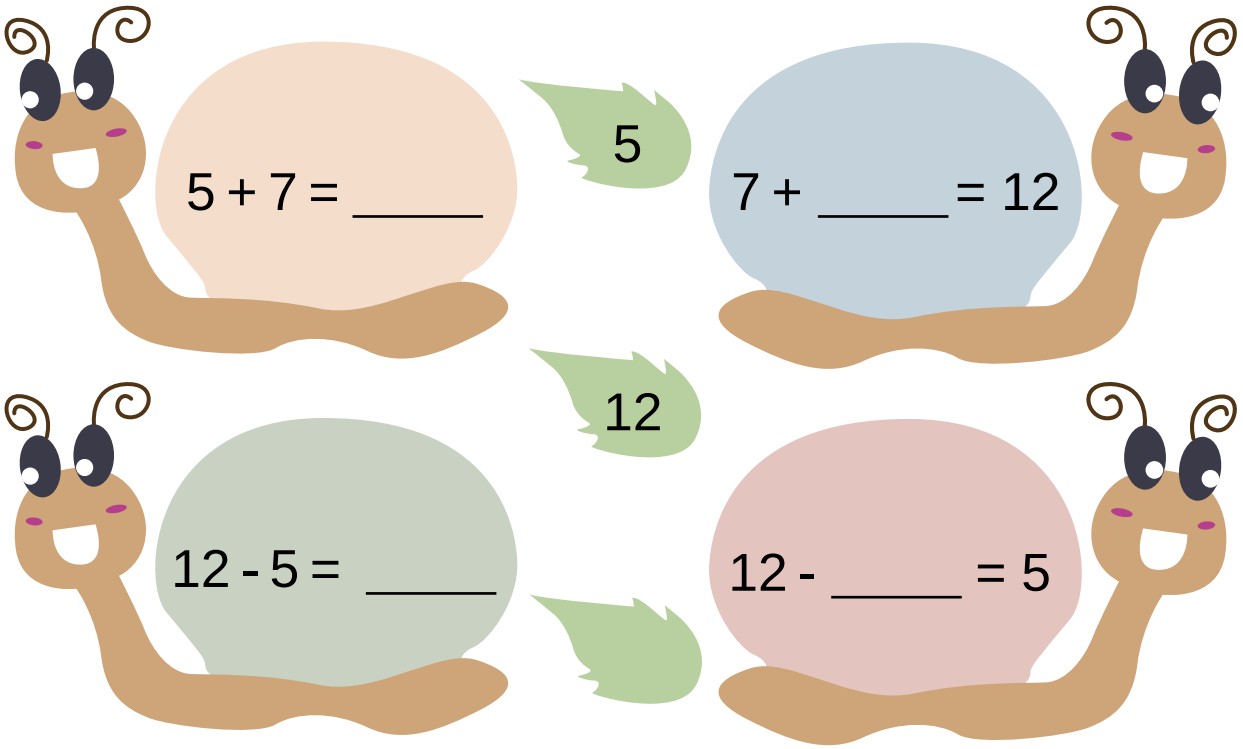
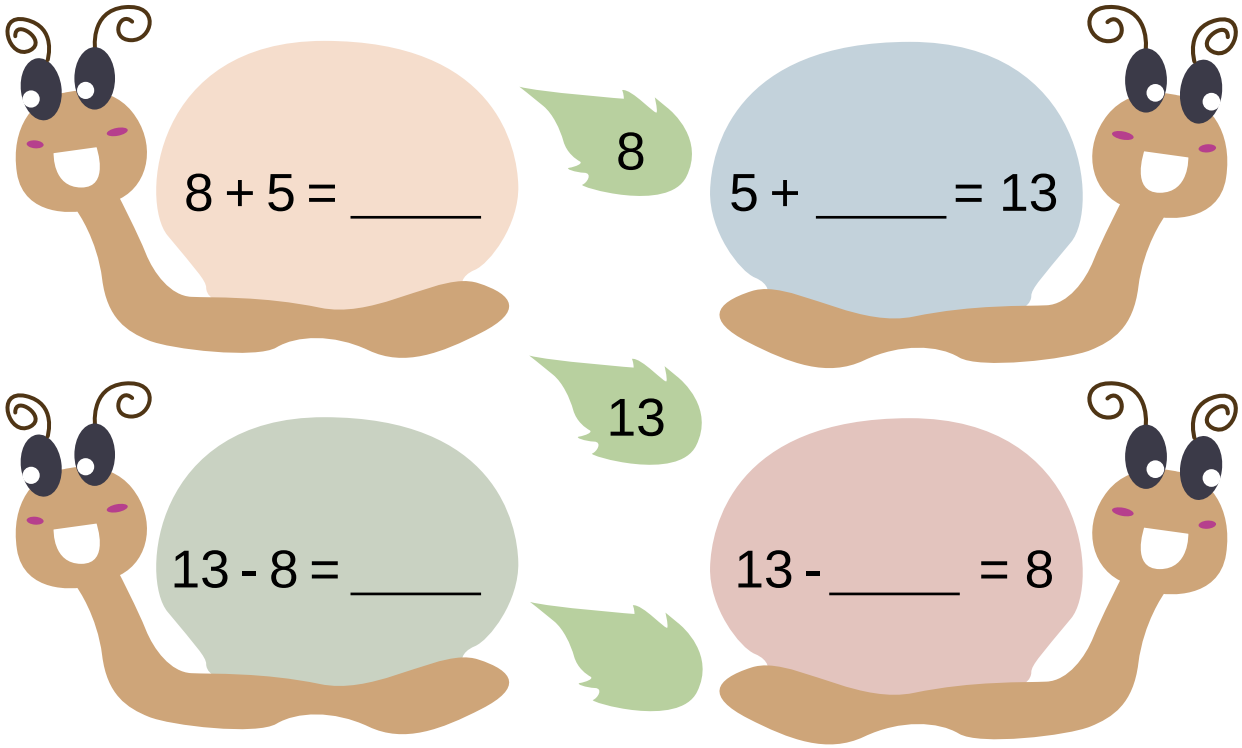
SNAIL FACT FAMILIES

Finish the fact families by writing the missing numbers. Then write the missing third number on the blank leaf.





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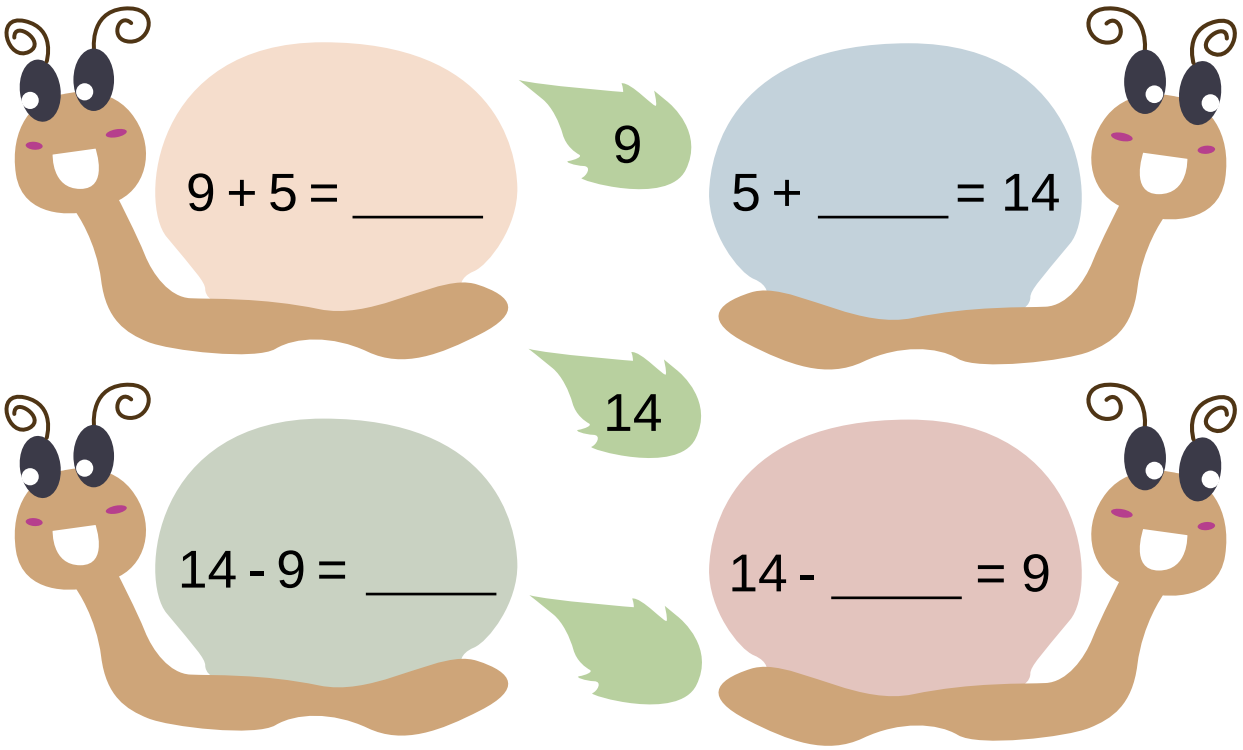

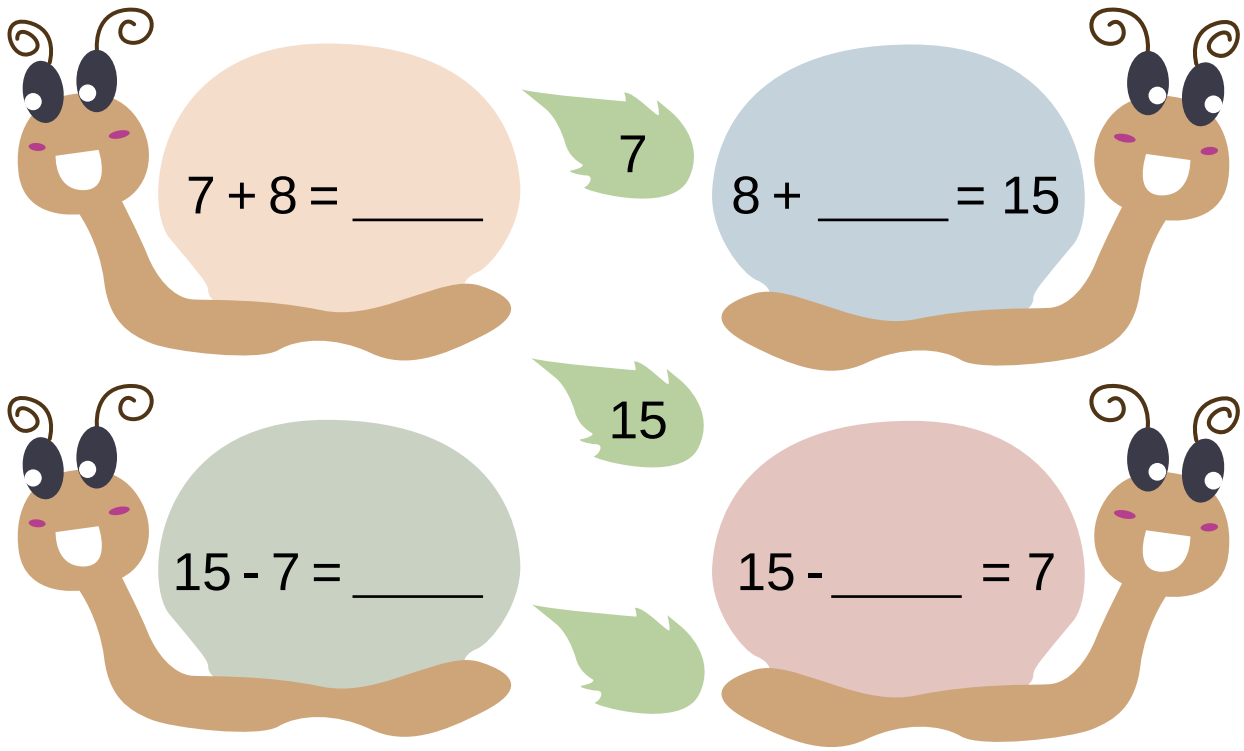

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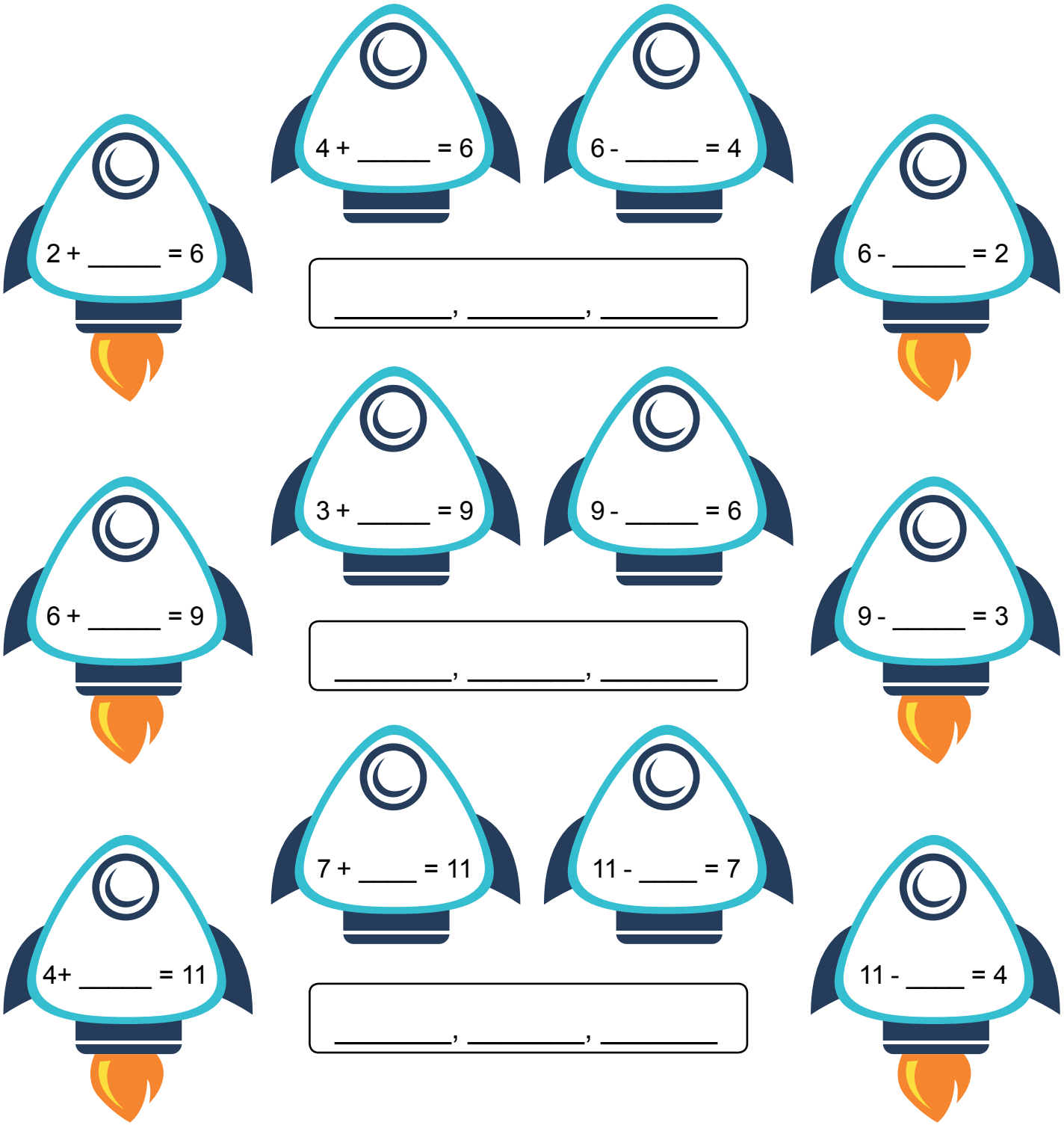
REACH FOR THE STARS

PILOTS, PREPARE FOR TAKEOFF!

Fill in the blank to complete the math problem on each spaceship below. Then write the three numbers you used for this fact family in the empty box.



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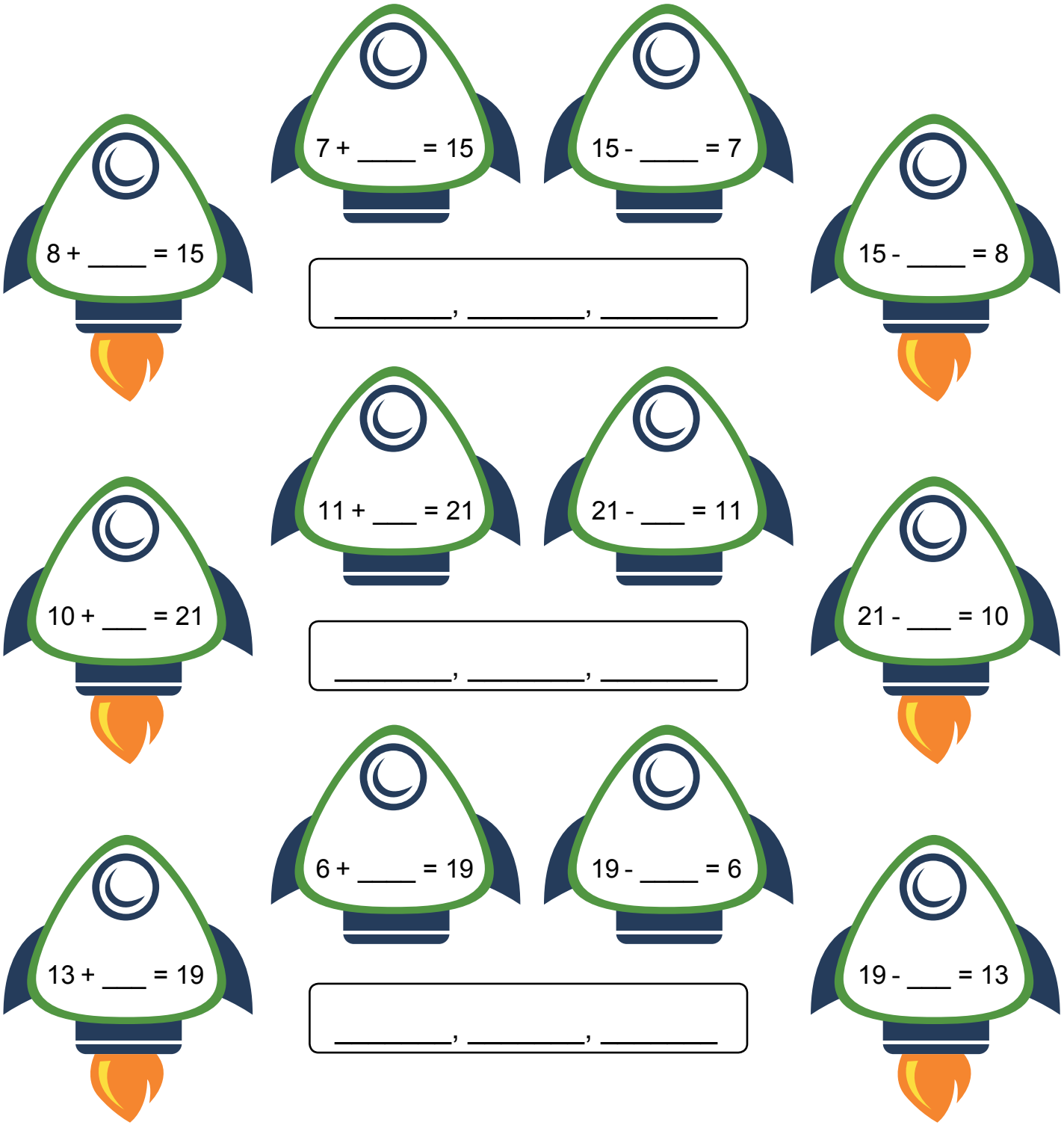

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REACH FOR THE STARS

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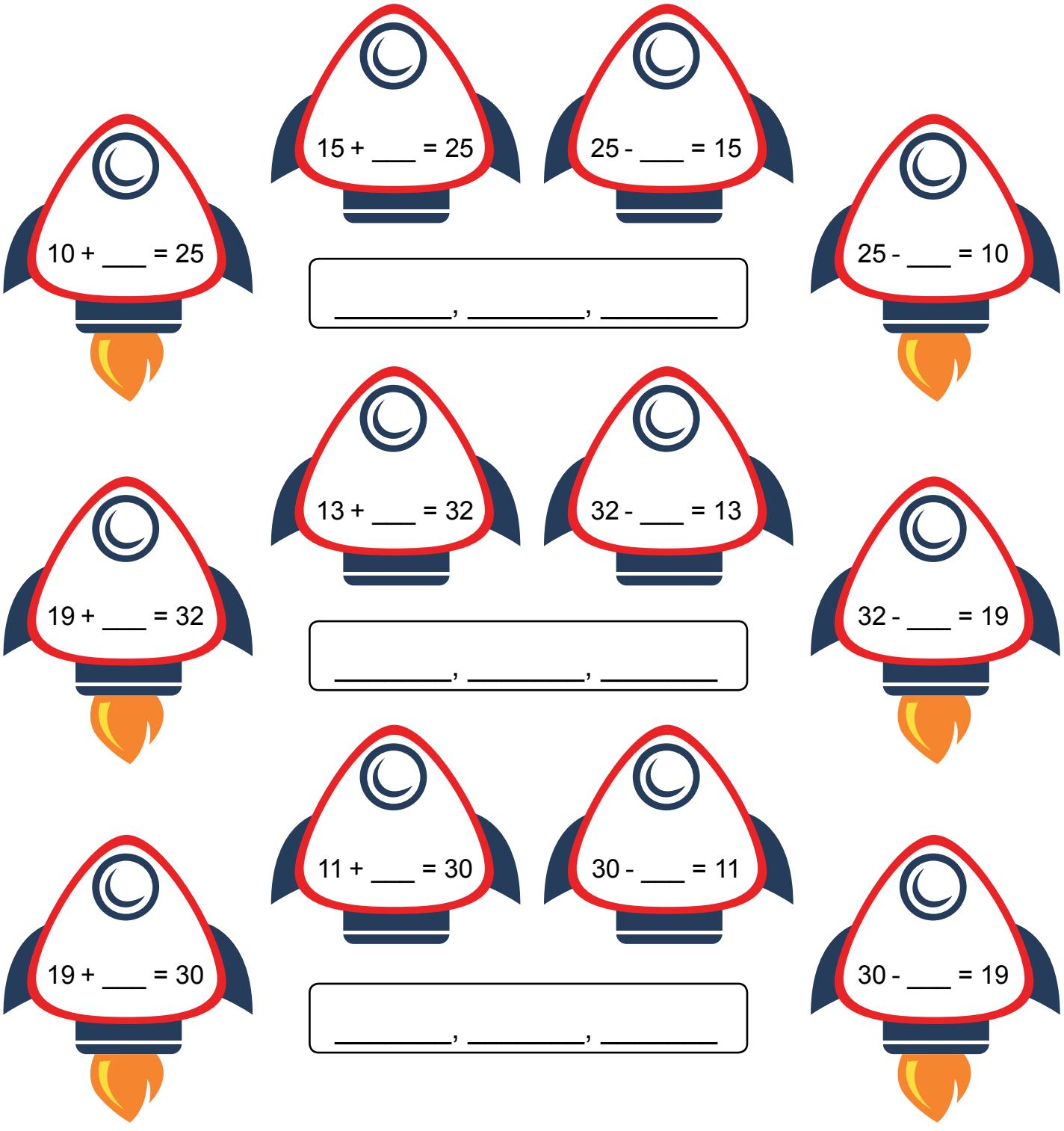
Fill in the blank to complete the math problem on each spaceship below. Then write the three numbers you used for this fact family in the empty box.



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CHECKING SUBTRACTION

Subtract, then add to check your answer.

EXAMPLE: 14 - 9 = **5** and **5** + 9 = 14

Now complete the fact family with the numbers used above.

14 - **5** = **9** and **9** + **5** = **14**

1

13 - 9 = _____ / - - - - - - - / _____ and _____ / - - - - - - - / _____ + 9 = 13

☐ - ☐ = ☐ and ☐ + ☐ = ☐

2

12 - 5 = _____ / - - - - - - - / _____ and _____ / - - - - - - - / _____ + 5 = 12

☐ - ☐ = ☐ and ☐ + ☐ = ☐

3

16 - 7 = _____ / - - - - - - - / _____ and _____ / - - - - - - - / _____ + 7 = 16

☐ - ☐ = ☐ and ☐ + ☐ = ☐

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4

11 - 3 = _____ / – – – – – – – / _____ and _____ / – – – – – – – / _____ + 3 = 11

☐ - ☐ = ☐ and ☐ + ☐ = ☐

5

14 - 8 = _____ / – – – – – – – / _____ and _____ / – – – – – – – / _____ + 8 = 14

☐ - ☐ = ☐ and ☐ + ☐ = ☐

6

18 - 8 = _____ / – – – – – – – / _____ and _____ / – – – – – – – / _____ + 8 = 18

☐ - ☐ = ☐ and ☐ + ☐ = ☐

7

13 - 4 = _____ / – – – – – – – / _____ and _____ / – – – – – – – / _____ + 4 = 13

☐ - ☐ = ☐ and ☐ + ☐ = ☐

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8

19 - 1 = _____ / – – – – – – – / _____ and _____ / – – – – – – – / _____ + 1 = 19

☐ - ☐ = ☐ and ☐ + ☐ = ☐

9

10 - 4 = _____ / – – – – – – – / _____ and _____ / – – – – – – – / _____ + 4 = 10

☐ - ☐ = ☐ and ☐ + ☐ = ☐

10

13 - 9 = _____ / – – – – – – – / _____ and _____ / – – – – – – – / _____ + 9 = 13

☐ - ☐ = ☐ and ☐ + ☐ = ☐

11

15 - 3 = _____ / – – – – – – – / _____ and _____ / – – – – – – – / _____ + 3 = 15

☐ - ☐ = ☐ and ☐ + ☐ = ☐

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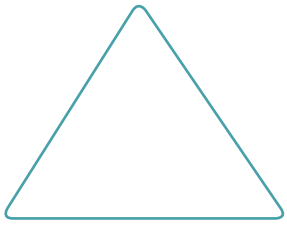
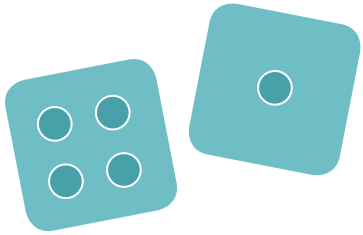
FACT FAMILY DICE

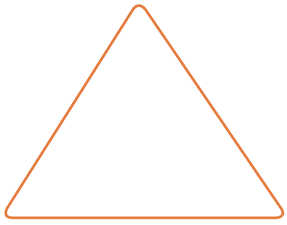
Add together the two dice to find the missing fact family number. Fill in the fact triangle using these numbers. Remember that the biggest number always sits at the top of the triangle! Then build your fact family number sentences using the blank lines.



_____ + _____ = _____

_____ + _____ = _____





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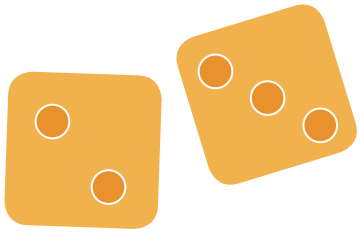

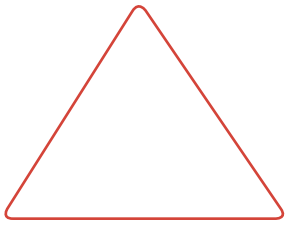

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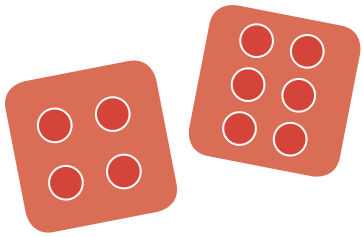

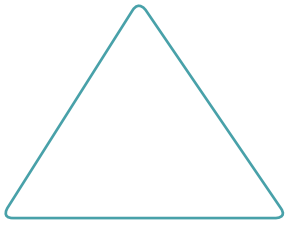

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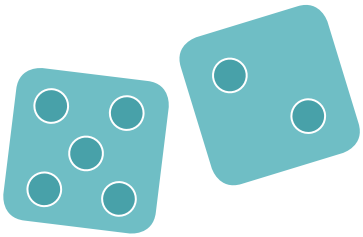

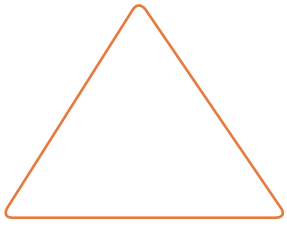

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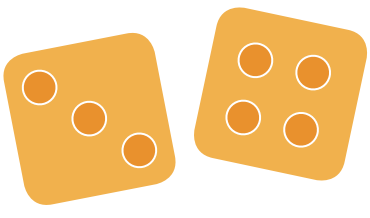

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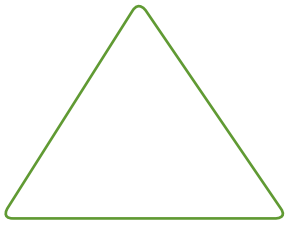
FACT FAMILY DICE # 2

Now ***subtract*** the two dice to find the missing fact family number. Fill in the fact triangle using these numbers. Remember that the biggest number always sits at the top of the triangle! Then build your fact family number sentences using the blank lines.



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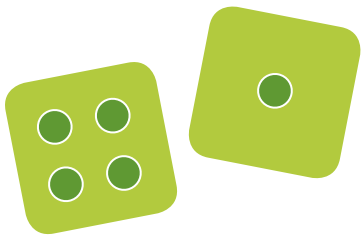
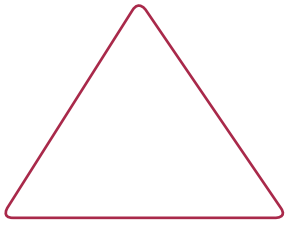
_____ - _____ = _____





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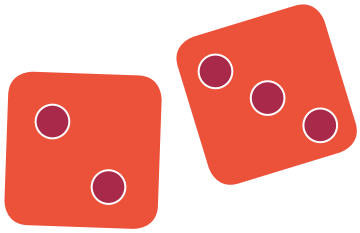
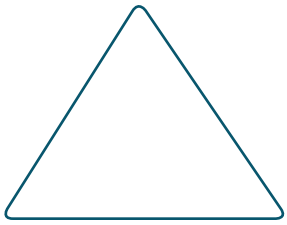
_____ - _____ = _____





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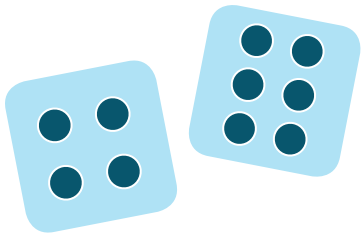

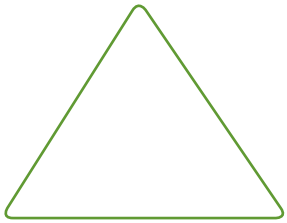

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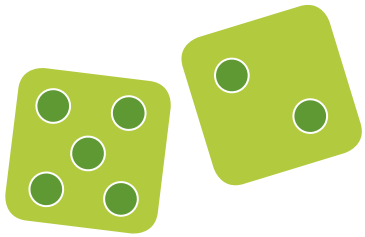

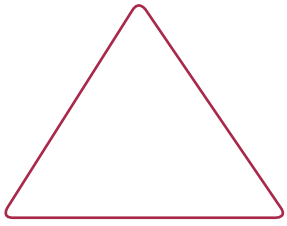

_____ - _____ = _____

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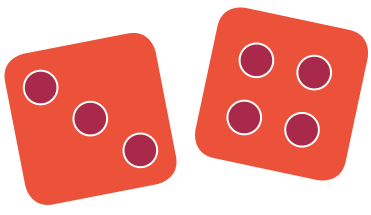

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FACT FAMILY MIX UP!

Fill in the missing numbers in the fact family house. Then, find the roof that matches the bottom of the house and draw a line to connect the two pieces.

$3 + \square = 10$

$7 + 3 = 10$

$\square - 3 = 7$

$10 - 7 = 3$

$\square + 8 = 9$

$8 + 1 = 9$

$9 - 1 = 8$

$9 - 8 = \square$

$2 + \square = 13$

$11 + 2 = 13$

$\square - 2 = 11$

$13 - 11 = \square$

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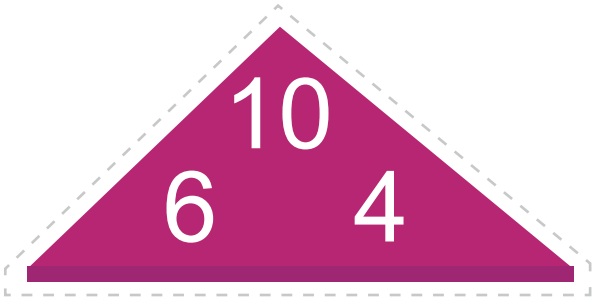
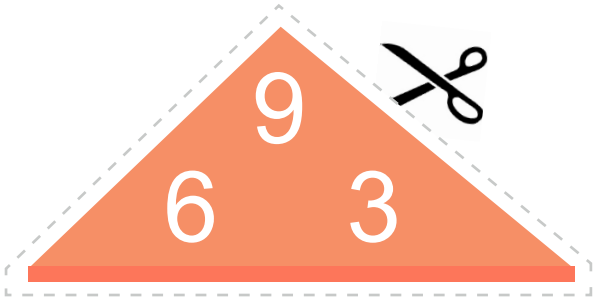
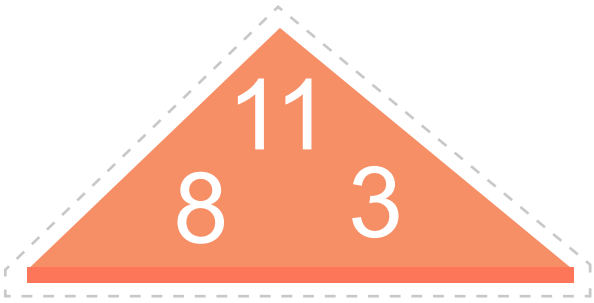
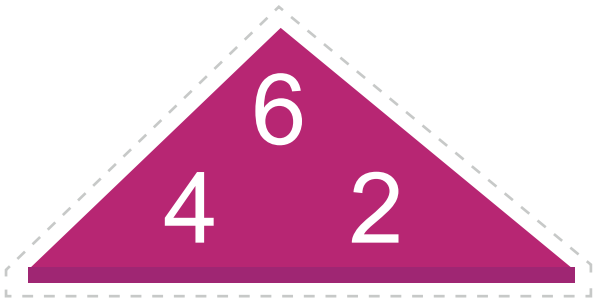
FACT FAMILY MIX UP!

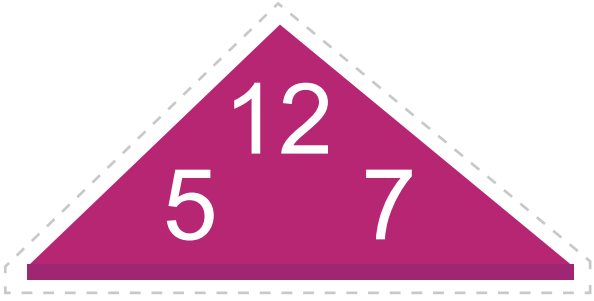
Cut out all of the roof pieces on page 1. Find the bottom of the house on page 2 that matches each roof and glue your house pieces together. If a fact family house is missing some information, make sure to fill it in yourself.

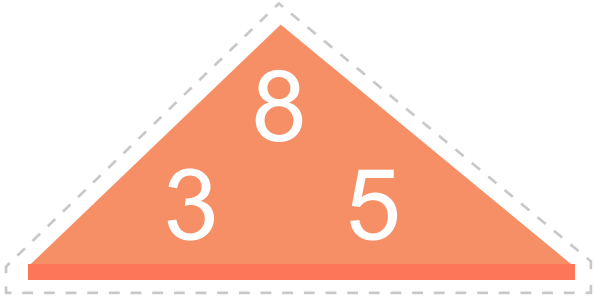












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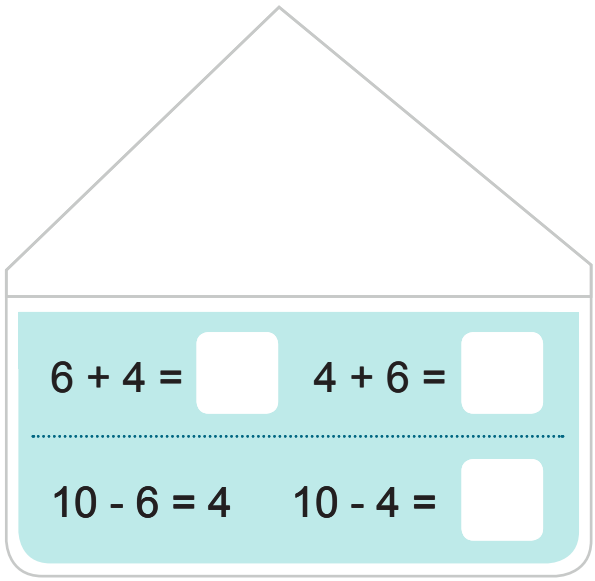

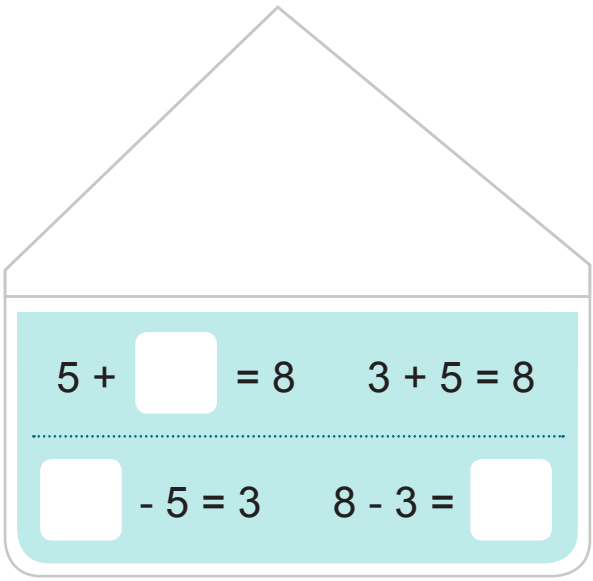

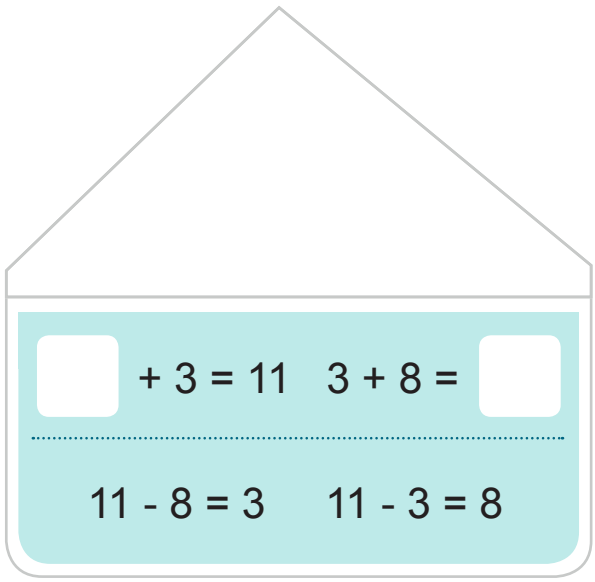

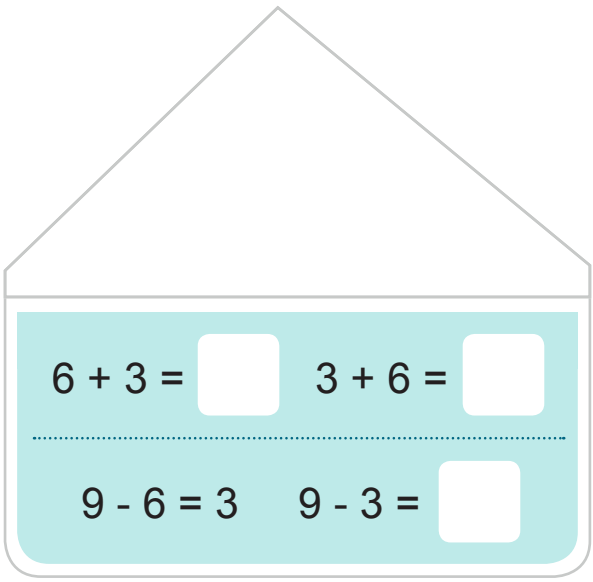

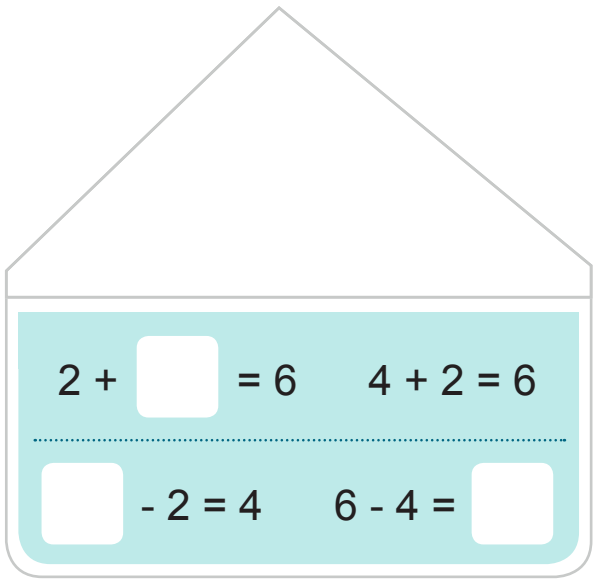

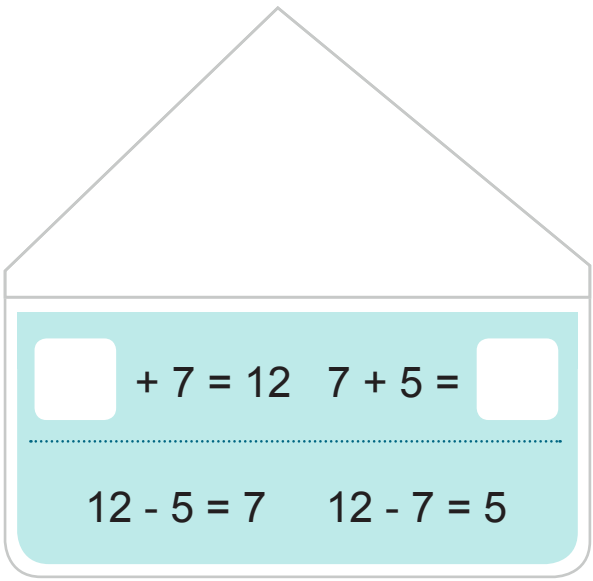

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FACT FAMILY MIX UP!

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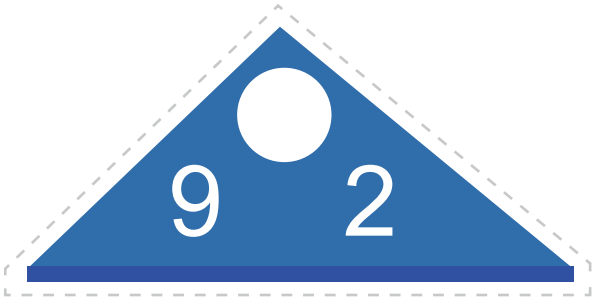

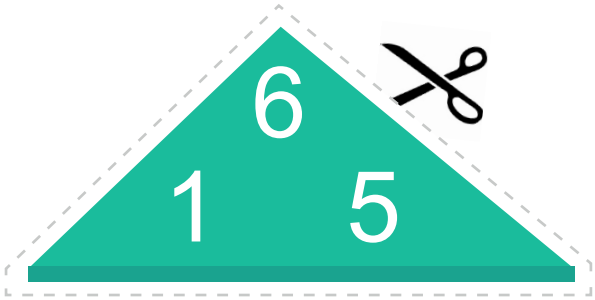

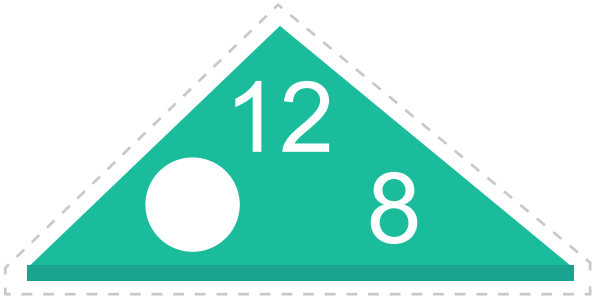

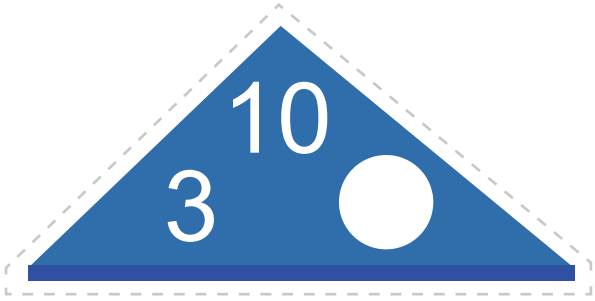

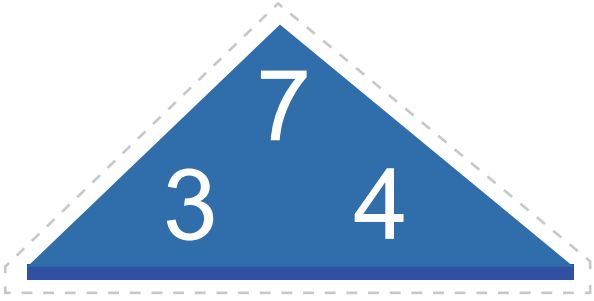

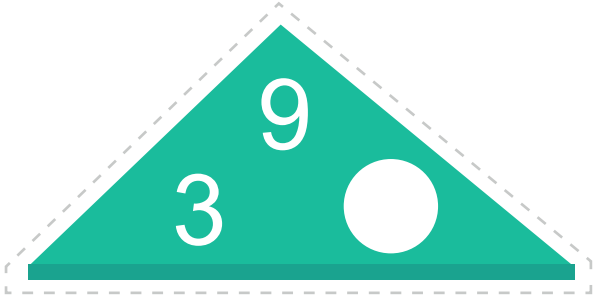

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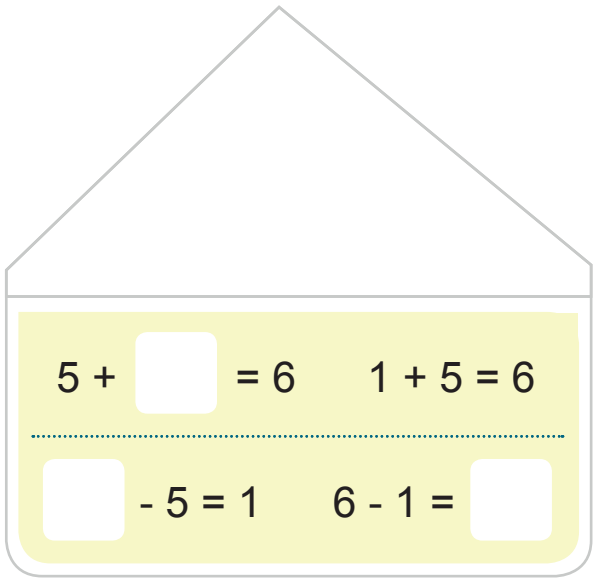

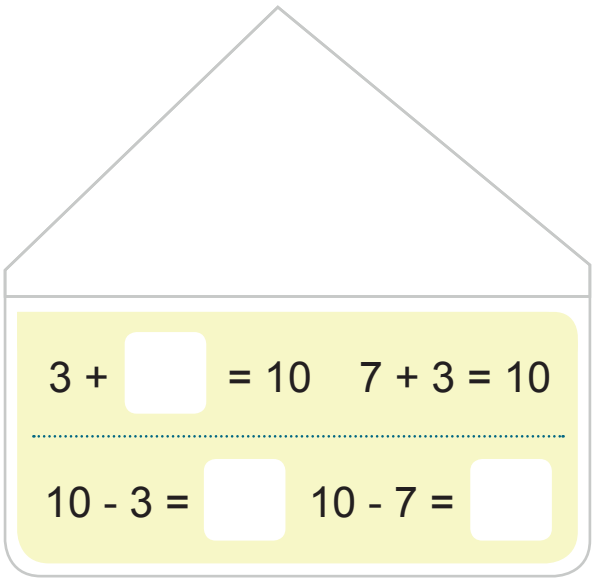

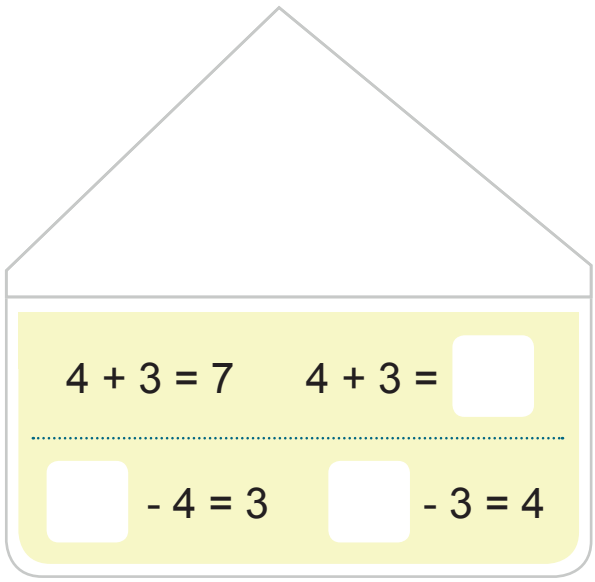

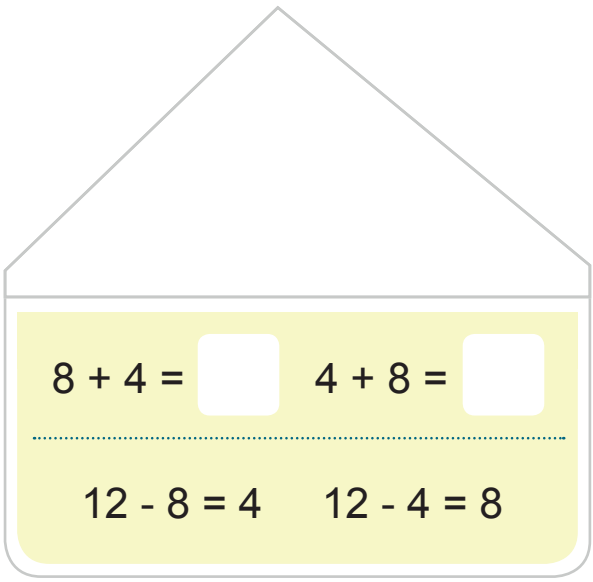

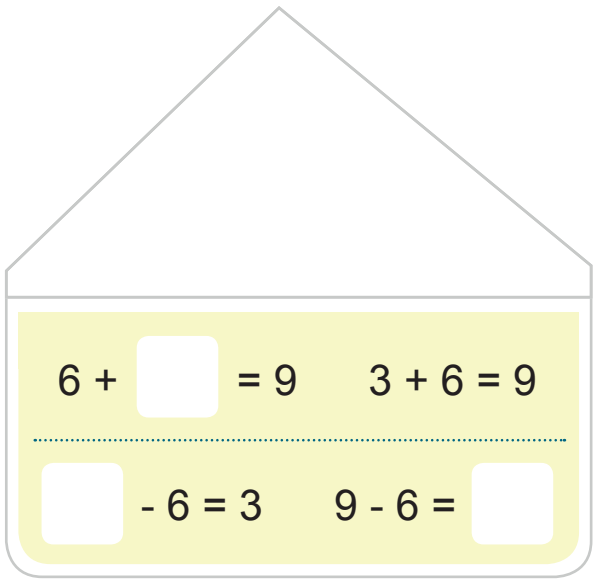

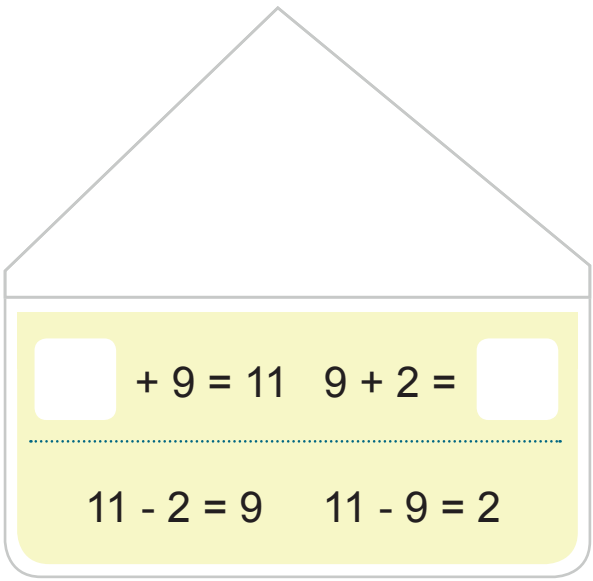

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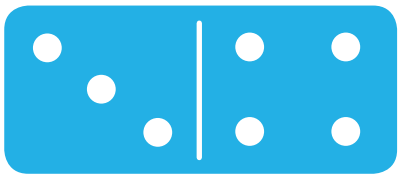
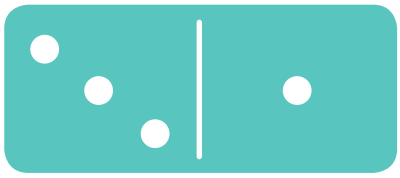
DOMINO FACT FAMILIES

Add the domino dots together to find a total. Then use these three numbers to build your fact family number sentences.





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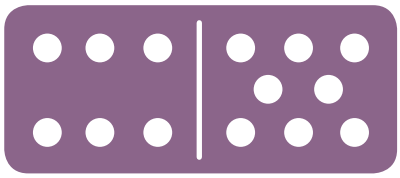

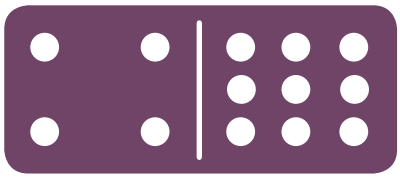

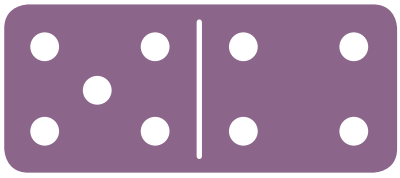

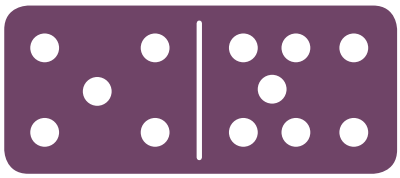

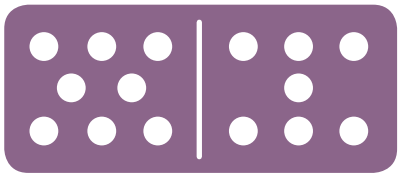

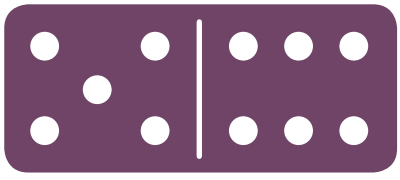

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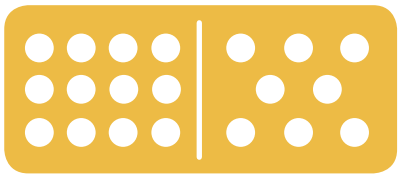
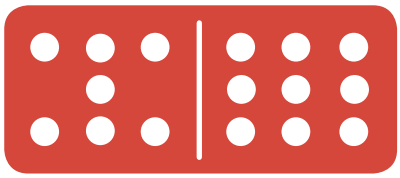
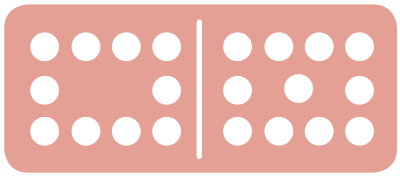
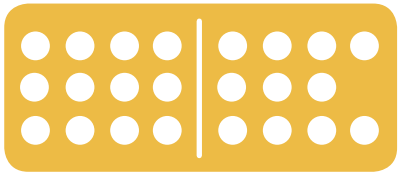
DOMINO FACT FAMILIES

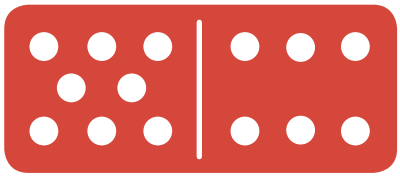
Add the domino dots together to find a total. Then use these three numbers to build your fact family number sentences.

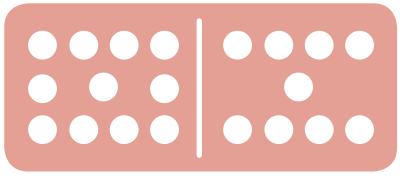












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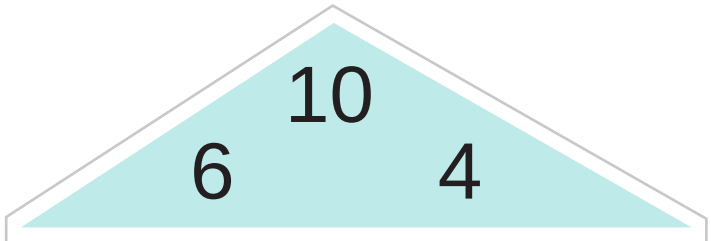
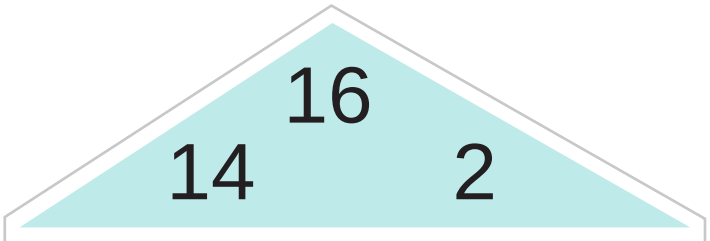
MAKING NUMBER CONNECTIONS

Complete the fact family houses below. Then use the word bank at the bottom of the page to answer the questions.



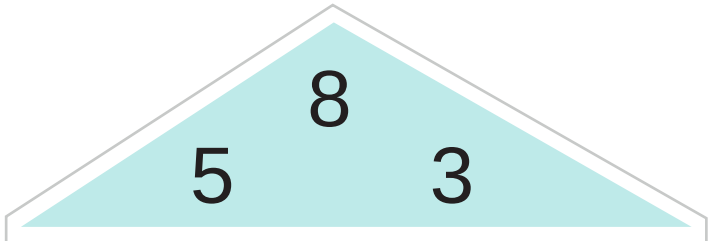
___ + ___ = ___ ___ + ___ = ___

___ - ___ = ___ ___ - ___ = ___



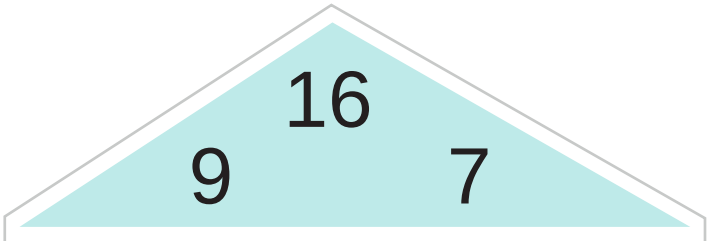
___ + ___ = ___ ___ + ___ = ___

___ - ___ = ___ ___ - ___ = ___



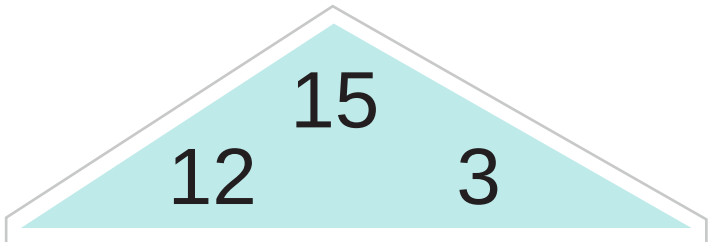
___ + ___ = ___ ___ + ___ = ___

___ - ___ = ___ ___ - ___ = ___



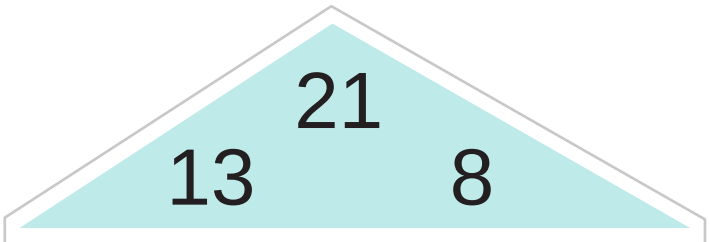
___ + ___ = ___ ___ + ___ = ___

___ - ___ = ___ ___ - ___ = ___



___ + ___ = ___ ___ + ___ = ___

___ - ___ = ___ ___ - ___ = ___



___ + ___ = ___ ___ + ___ = ___

___ - ___ = ___ ___ - ___ = ___

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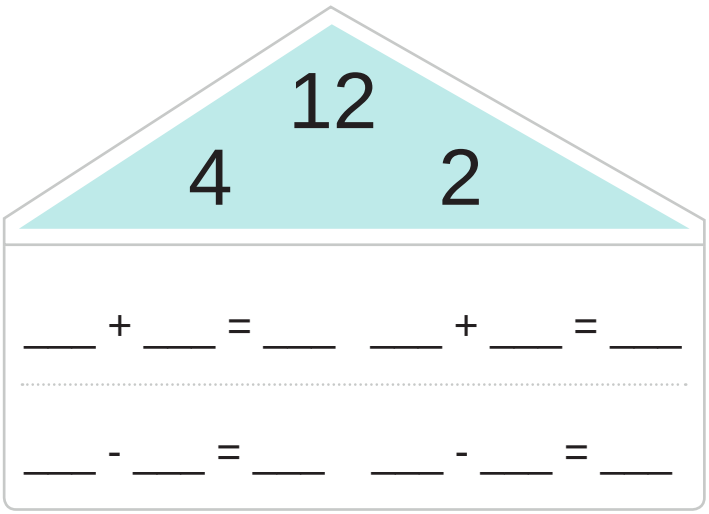

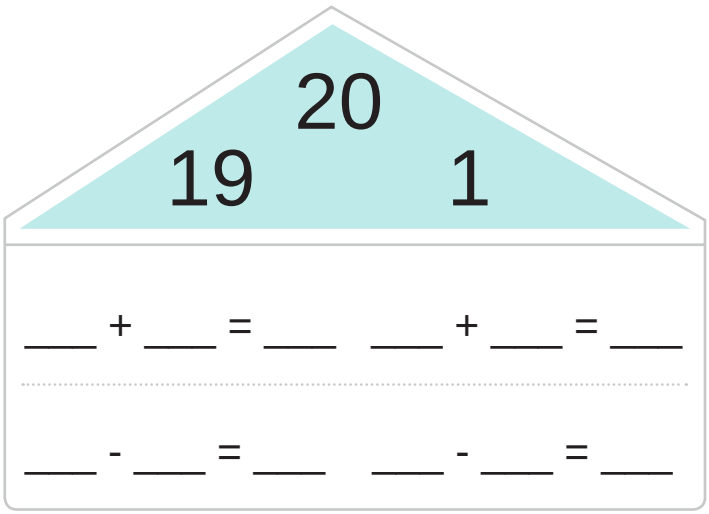

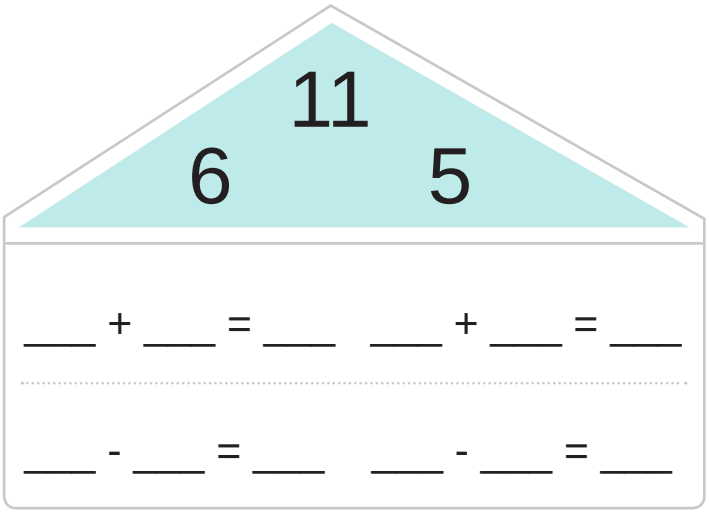

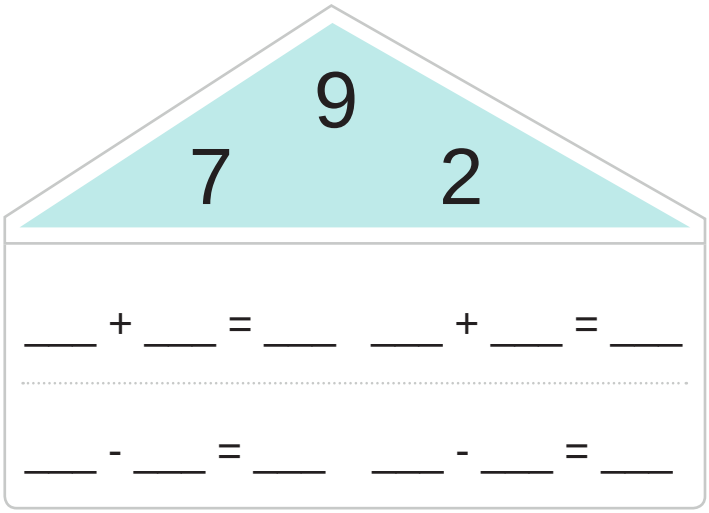

Use the words in the word bank to complete the sentences below.

WORD BANK

even

odd

1. When you add two even numbers together, the total or sum will always be _____.
2. When you add two odd numbers together, the total or sum will always be _____.
3. When you add an even number together with an odd number, the total or sum will always be _____.

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HUNTING FOR FACT FAMILIES: NUMBERS 1–15

Find all of the fact families in the puzzle below. Draw a red box around the fact family squares to show which number sentences go together.

4	6	13	=	1	+	5	=	6	5	+	1	=	6
3	10	12	2	6	-	1	=	5	6	-	5	=	1
9	2	+	4	=	6	4	+	2	=	6	2	+	4
2	6	-	2	=	4	6	-	4	=	2	3	-	13
3	12	8	+	3	=	12	8	-	9	+	6	=	15
9	8	4	3	-	8	=	1	5	6	+	9	=	15
12	1	5	-	1	=	7	14	+	15	-	9	=	6
7	4	9	7	+	3	=	7	8	15	-	6	=	9
15	6	2	+	15	=	10	16	+	1	=	15	11	-
8	12	+	3	=	15	3	+	12	=	15	2	+	3
11	15	-	12	=	3	15	-	3	=	12	6	-	2
4	+	7	=	11	3	+	11	9	-	8	=	1	7
7	+	4	=	11	4	-	6	=	2	14	+	11	9
11	-	4	=	7	7	9	=	10	1	4	-	3	1
11	-	7	=	4	11	10	+	2	=	11	7	+	10

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HUNTING FOR FACT FAMILIES: NUMBERS 10–25

Find all of the fact families in the puzzle below. Draw a red box around the fact family squares to show which number sentences go together.

13	+	3	=	16	16	+	3	=	19	19	-	4	6
3	+	13	=	16	12	-	4	=	11	3	+	11	1
16	-	13	=	3	3	=	23	-	4	+	2	=	4
16	-	3	=	13	2	+	19	=	21	24	+	1	23
3	12	8	+	3	19	+	2	=	21	3	-	2	1
9	8	4	3	-	21	-	2	=	19	6	9	=	1
12	1	5	-	1	21	-	19	=	2	8	3	+	6
7	4	9	7	+	3	=	7	8	15	-	6	=	9
9	+	10	=	19	10	+	9	=	19	20	-	11	=
19	-	9	=	10	19	-	10	=	9	19	+	2	=
12	+	2	10	+	11	=	21	11	+	10	=	21	9
21	-	7	21	-	10	=	11	21	-	11	=	10	2
9	2	+	10	15	+	3	=	18	3	+	15	=	18
6	17	-	22	18	-	15	=	3	18	-	3	=	15
8	-	7	=	3	3	+	11	=	7	21	8	17	13

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HUNTING FOR FACT FAMILIES: NUMBERS 25–50

Find all of the fact families in the puzzle below. Draw a red box around the fact family squares to show which number sentences go together.

35	+	20	=	26	+	16	=	42	+	20	=	52	12
8	-	4	=	16	+	26	=	42	-	10	=	22	42
21	+	12	=	42	-	26	=	16	54	+	21	=	61
98	8	+	32	42	-	16	=	26	30	-	11	=	22
29	+	15	=	44	15	+	29	=	44	1	+	35	12
44	-	29	=	15	44	-	15	=	29	4	-	12	11
9	82	5	-	1	=	7	14	+	15	-	9	=	16
10	-	42	+	8	=	50	7	39	+	10	=	49	11
25	34	8	+	42	=	50	16	10	+	39	=	49	53
36	+	50	-	42	=	8	+	49	-	39	=	10	22
65	29	50	-	8	=	42	-	49	-	10	=	39	47
14	+	56	=	79	+	20	=	67	67	-	50	49	12
56	-	14	=	68	-	26	=	1	23	28	-	10	39
15	+	9	=	36	+	11	=	47	11	+	36	=	47
19	-	18	=	47	-	36	=	11	47	-	11	=	36

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WHERE'S THE FACT FAMILY?

Find the numbers that work together to make a fact family. Draw a red box around the number set to show that they go together.

5	8	13	2	10	4	3	11	4	2	14	8	3	11
1	4	5	11	1	19	10	10	2	1	12	1	13	6
6	13	3	6	8	2	12	8	6	9	8	7	1	8
9	10	9	2	2	1	9	5	4	9	2	12	5	2
7	4	2	3	10	7	5	4	3	5	8	11	3	1
8	2	3	9	3	8	3	11	2	7	2	8	7	15
7	9	1	8	1	2	9	4	9	10	9	18	10	5
2	1	8	5	8	9	4	7	11	5	11	8	5	6

RECORD YOUR EQUATIONS

Now, use the number sets above to write each complete fact family in the boxes below. Remember, you need two addition number sentences and two subtraction number sentences to make the fact family complete!

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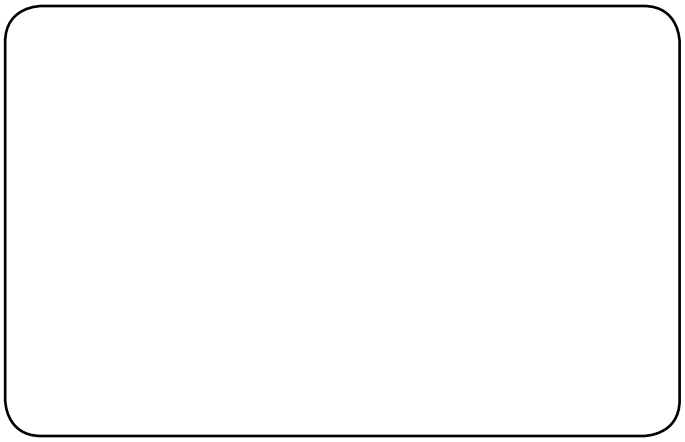
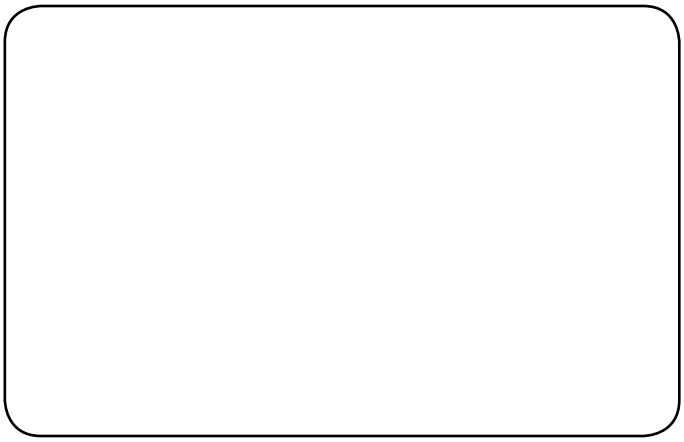
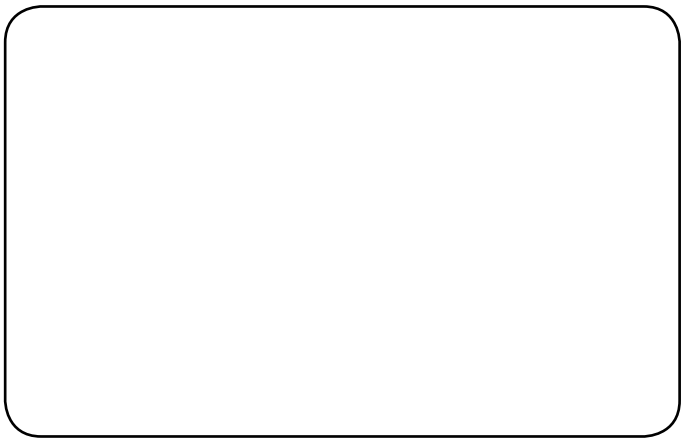
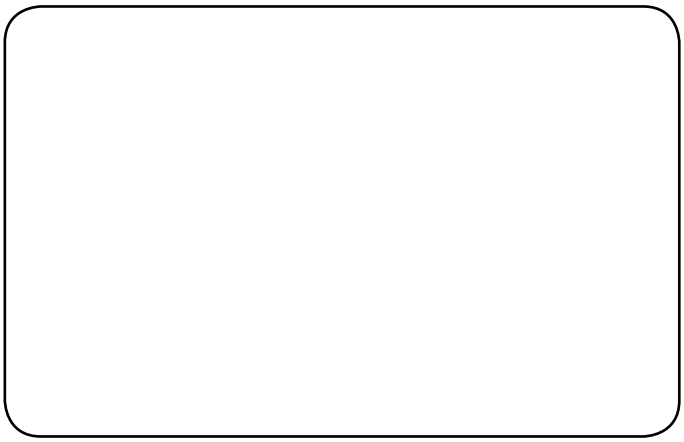
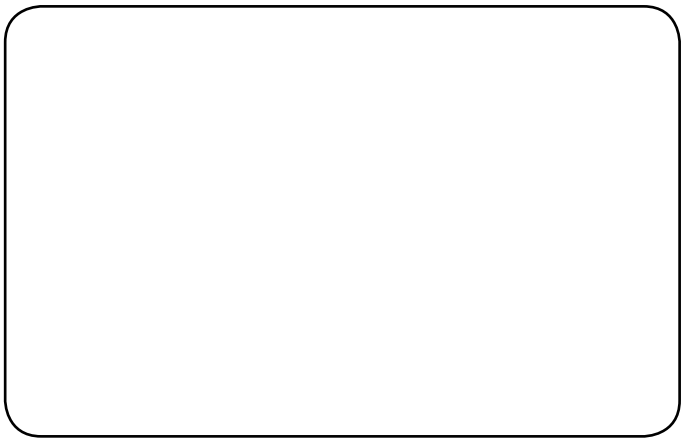
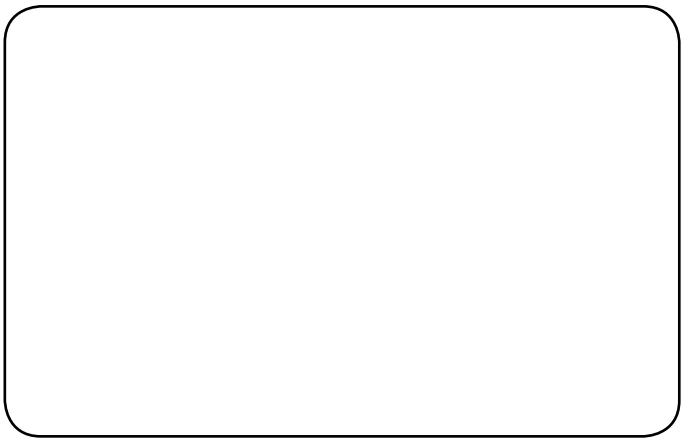
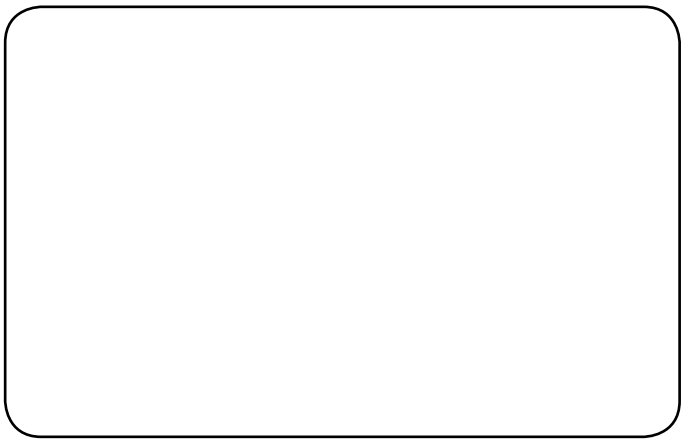
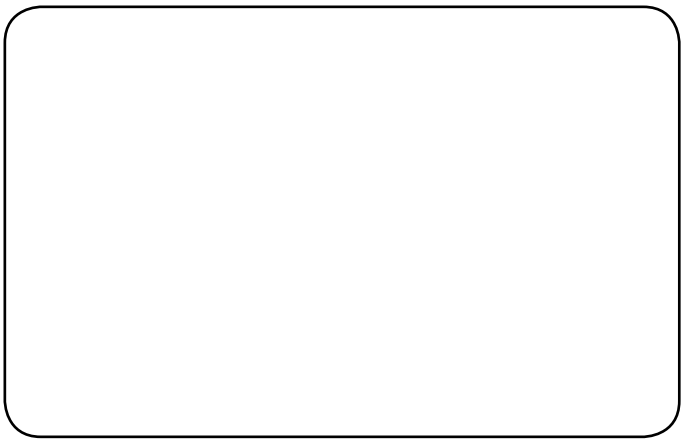

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WHERE'S THE FACT FAMILY?

Find the numbers that work together to make a fact family. Draw a red box around the number set to show that they go together.

17	28	18	32	10	11	36	1	8	22	27	2	18	20
23	7	13	20	19	15	19	3	21	5	30	5	13	18
21	3	16	3	11	22	11	13	3	16	16	13	10	19
8	13	9	4	8	10	20	2	5	18	19	18	41	9
15	18	10	18	19	13	16	29	9	30	21	11	29	17
23	8	29	10	11	21	23	15	1	7	28	5	41	26
2	10	31	16	4	35	41	43	2	16	10	21	51	23
19	24	29	20	11	39	24	12	14	23	7	14	15	26

RECORD YOUR EQUATIONS

Now, use the number sets above to write each complete fact family in the boxes below. Remember, you need two addition number sentences and two subtraction number sentences to make the fact family complete!

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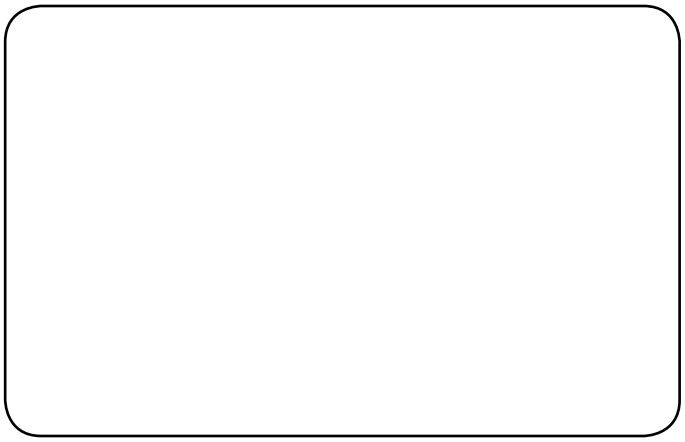
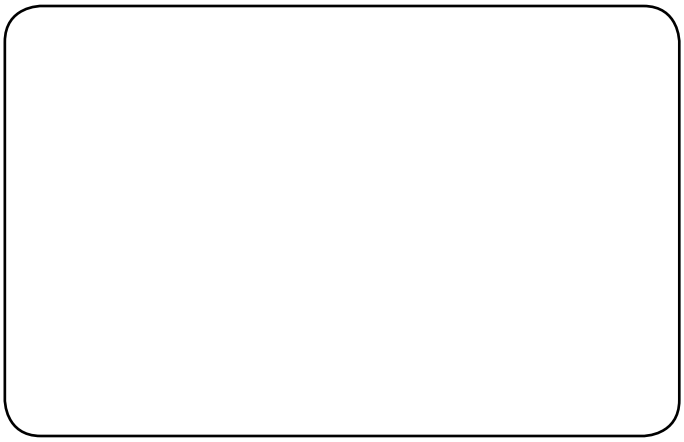
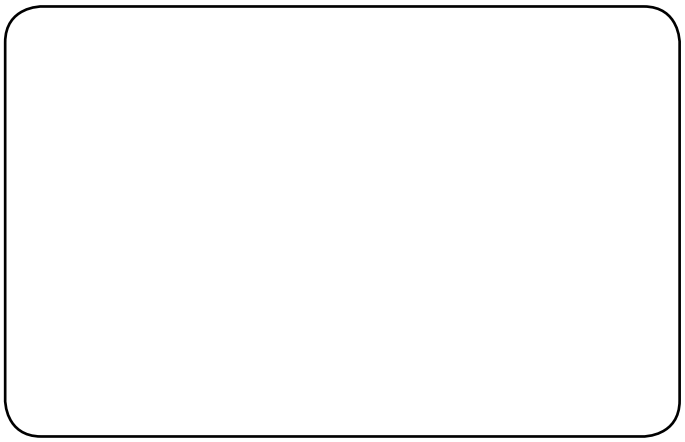
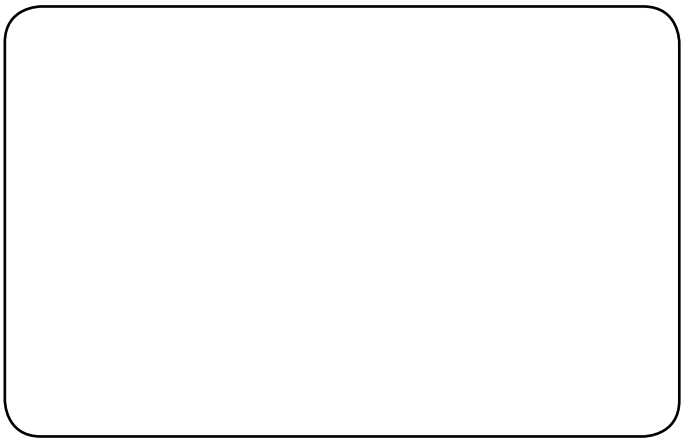
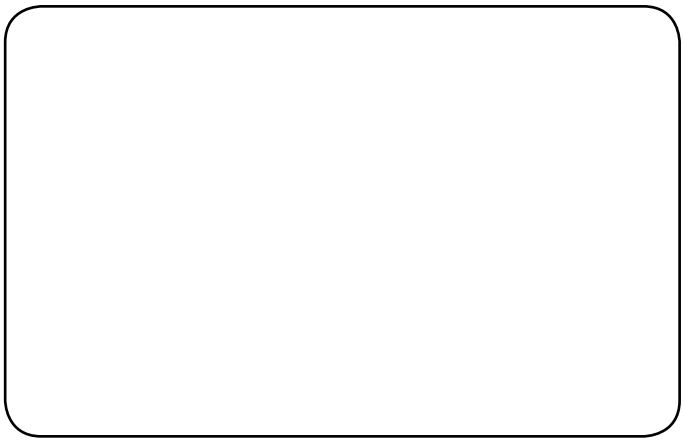
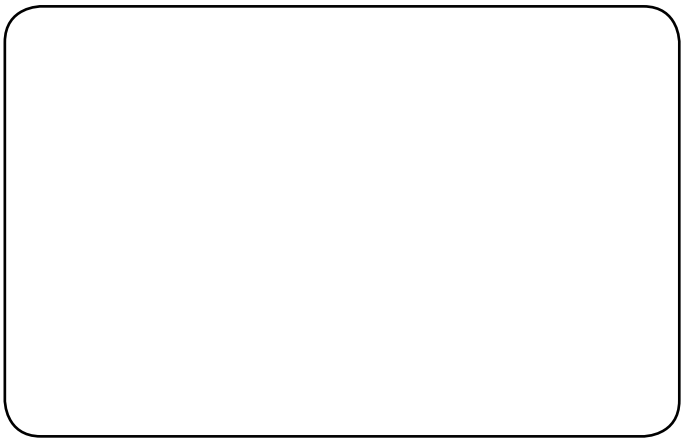
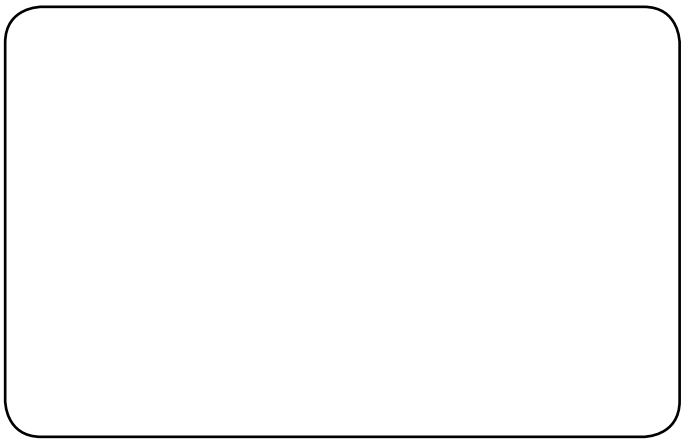
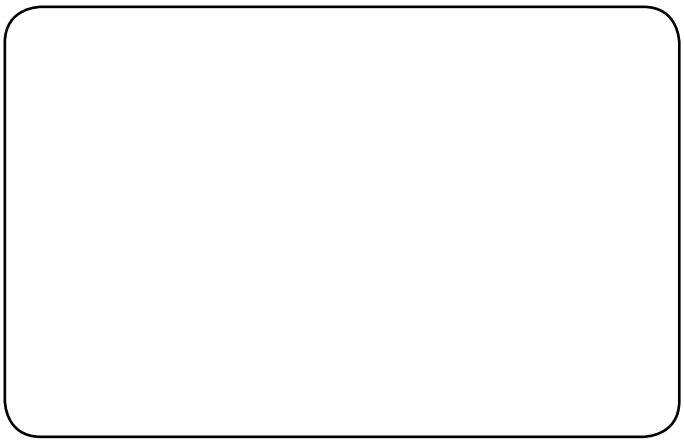

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WHERE'S THE FACT FAMILY?

Find the numbers that work together to make a fact family. Draw a red box around the number set to show that they go together.

67	23	28	60	30	25	55	25	10	23	20	52	17	30
81	15	19	19	31	60	27	49	23	17	13	41	21	10
23	38	20	22	42	23	13	43	38	82	10	29	19	40
51	12	29	41	23	40	49	52	50	22	25	47	31	22
28	18	46	65	39	13	12	37	25	62	26	12	18	12
81	41	56	47	30	41	19	10	35	42	25	40	25	43
22	27	49	39	33	15	20	23	60	45	19	31	38	29
16	15	32	24	57	56	25	11	13	50	18	52	55	20

RECORD YOUR EQUATIONS

Now, use the number sets above to write each complete fact family in the boxes below. Remember, you need two addition number sentences and two subtraction number sentences to make the fact family complete!

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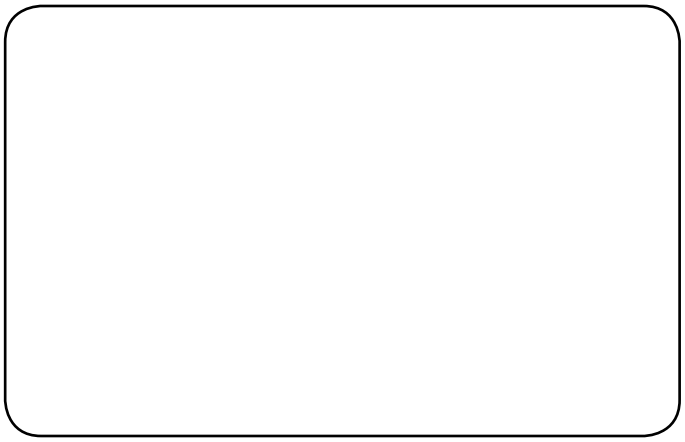
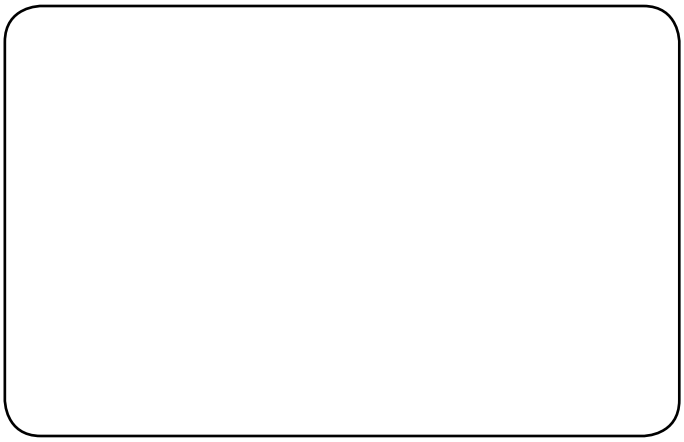
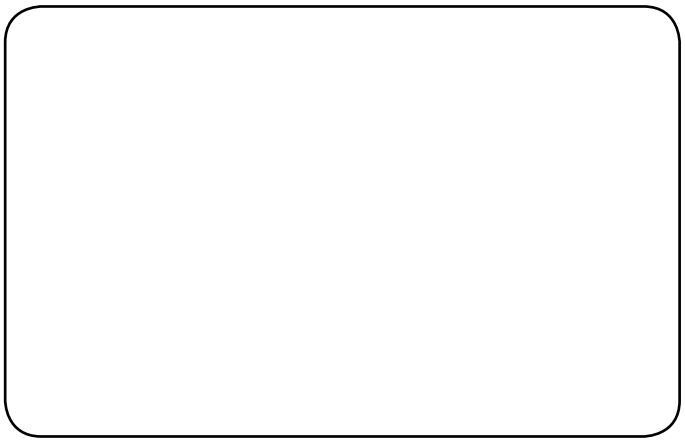
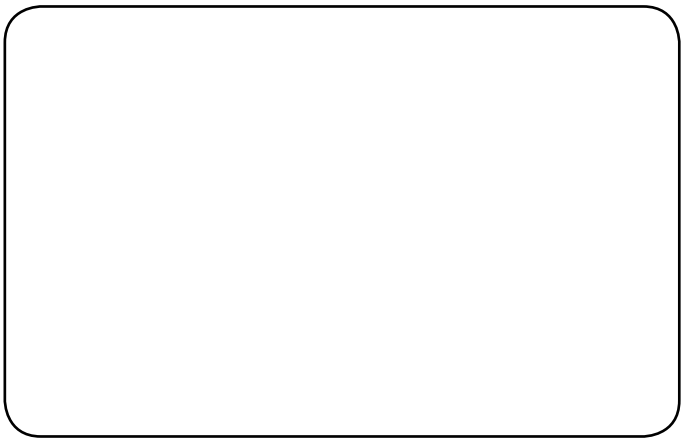
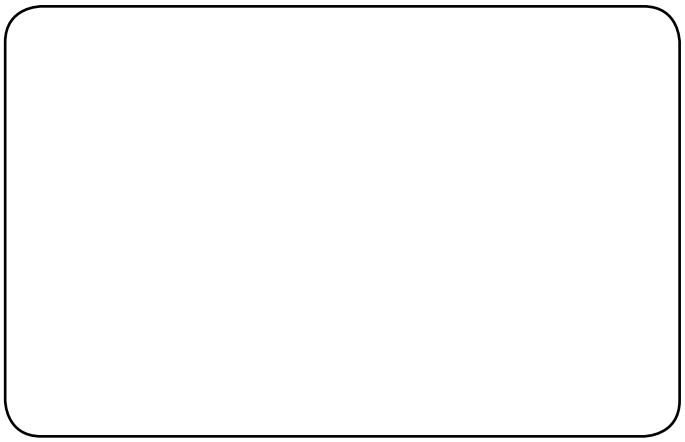
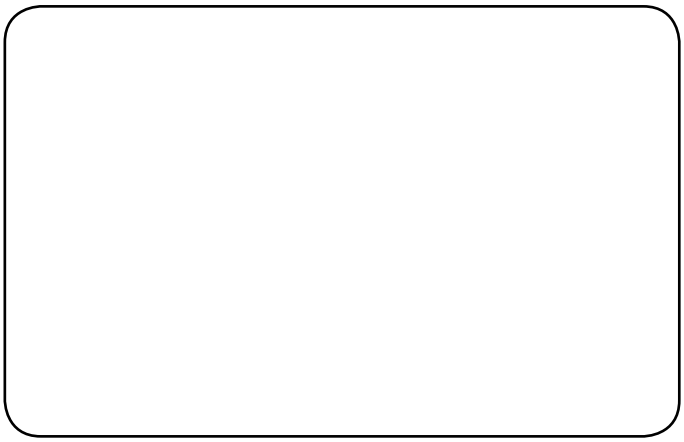
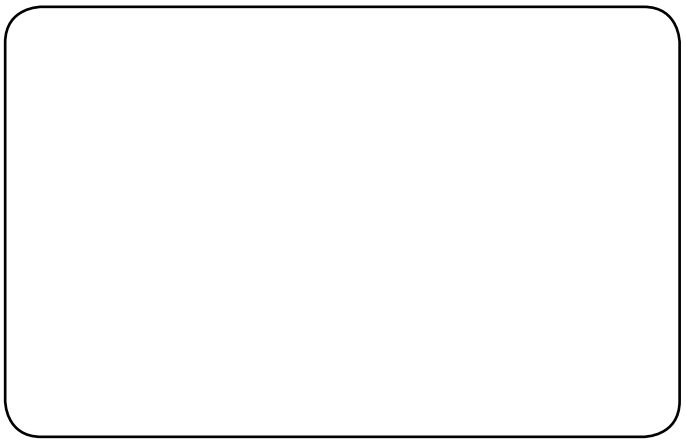
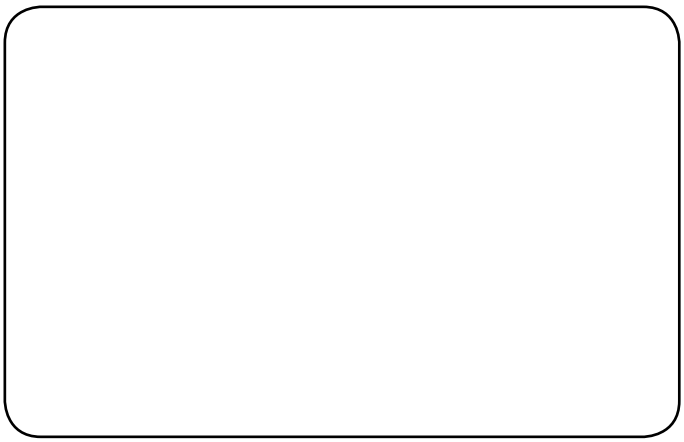

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Great job!

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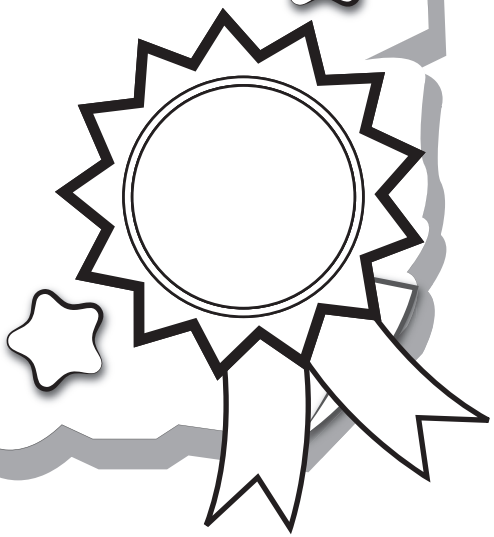
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