YEAR 1

Addition & Subtraction

- Related facts
- Compare number sentences

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Block 1 – Week 4

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Lesson 1

Step: Related facts

Practical

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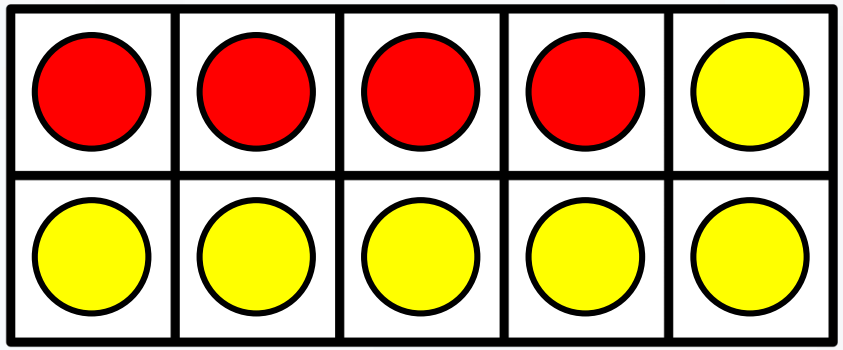
Fluency

Use the counters to complete the fact families.



4 + 6 = 10

6 + 4 = 10

10 - 4 = 6

10 - 6 = 4

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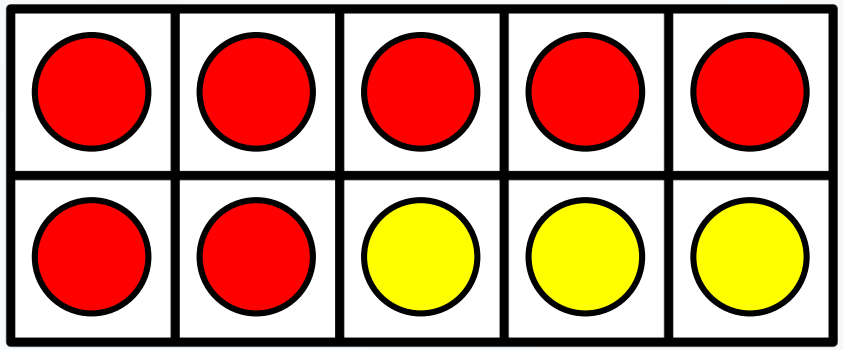
Fluency

Use the counters to complete the fact families.



7 + 3 = 10

3 + 7 = 10

10 - 7 = 3

10 - 3 = 7

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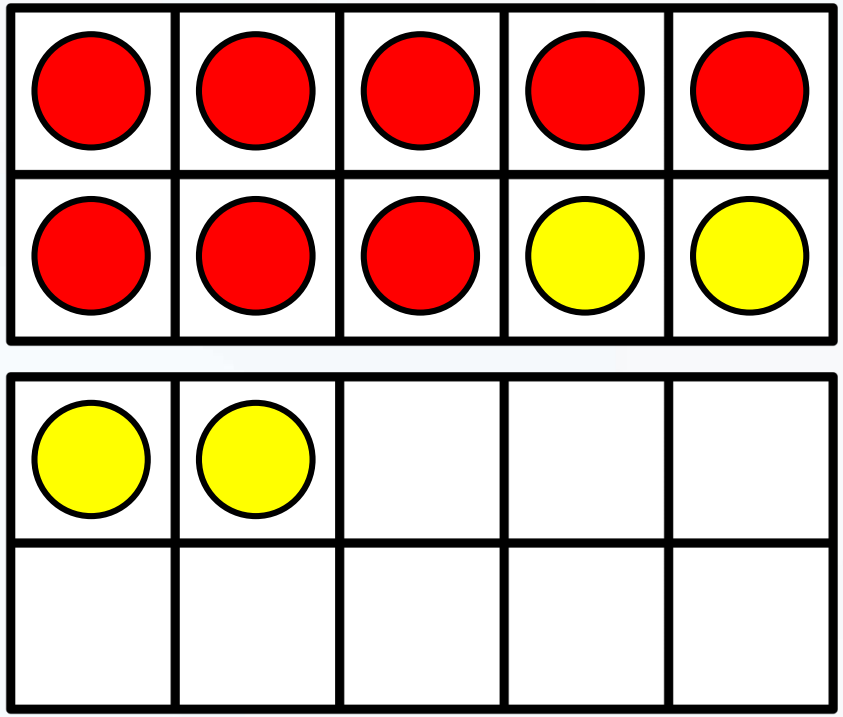
Fluency

Use the counters to complete the fact families.



8 + 4 = 12

4 + 8 = 12

12 - 8 = 4

12 - 4 = 8

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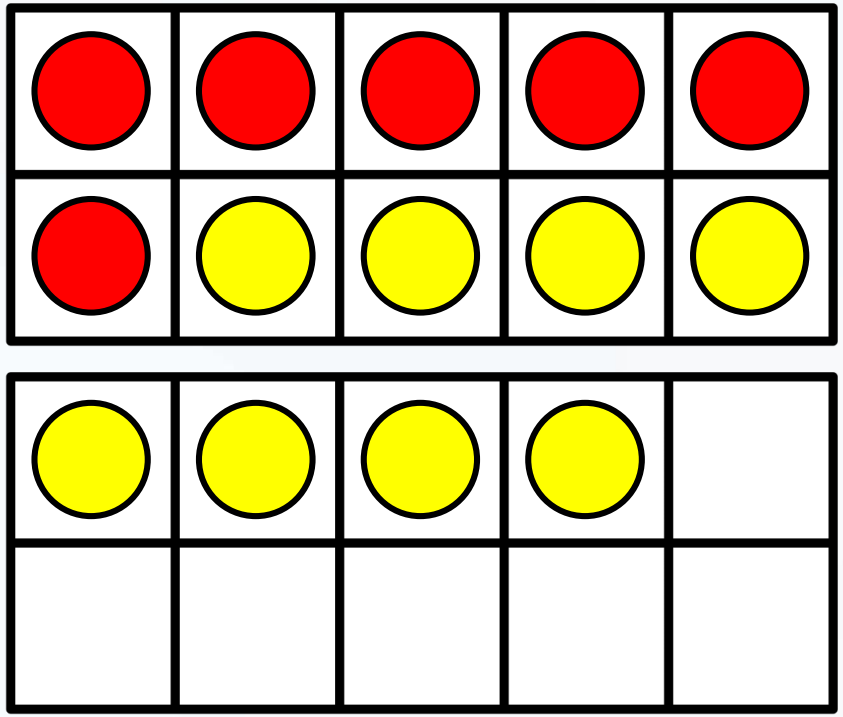
Fluency

Use the counters to complete the fact families.



6 + 8 = 14

8 + 6 = 14

14 - 6 = 8

14 - 8 = 6

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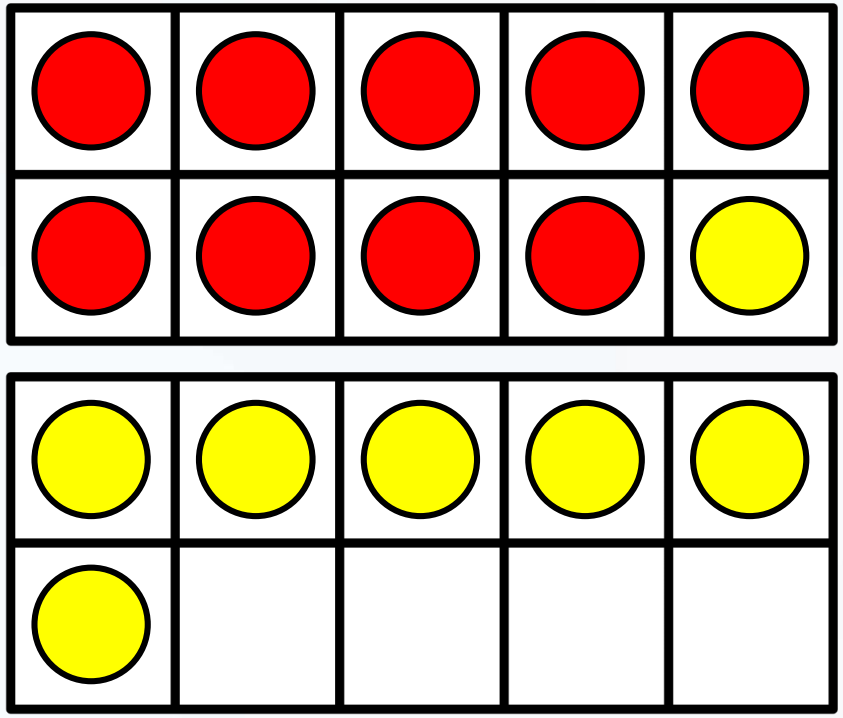
Fluency

Use the counters to complete the fact families.



$9 + 7 = 16$

$7 + 9 = 16$

$16 - 9 = 7$

$16 - 7 = 9$

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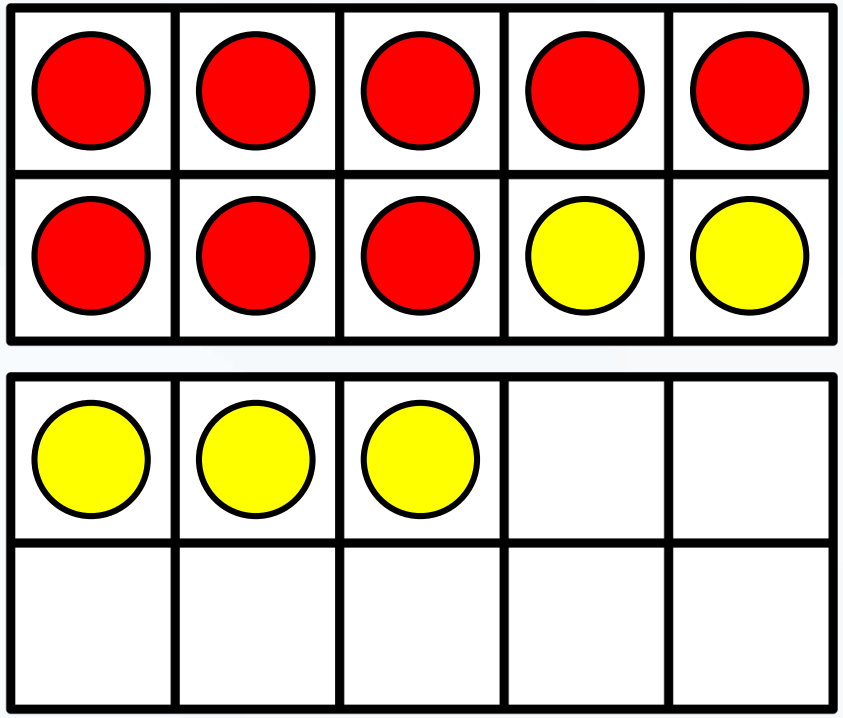
Fluency

Use the counters to complete the fact families.



8 + 5 = 13

5 + 8 = 13

13 - 8 = 5

13 - 5 = 8

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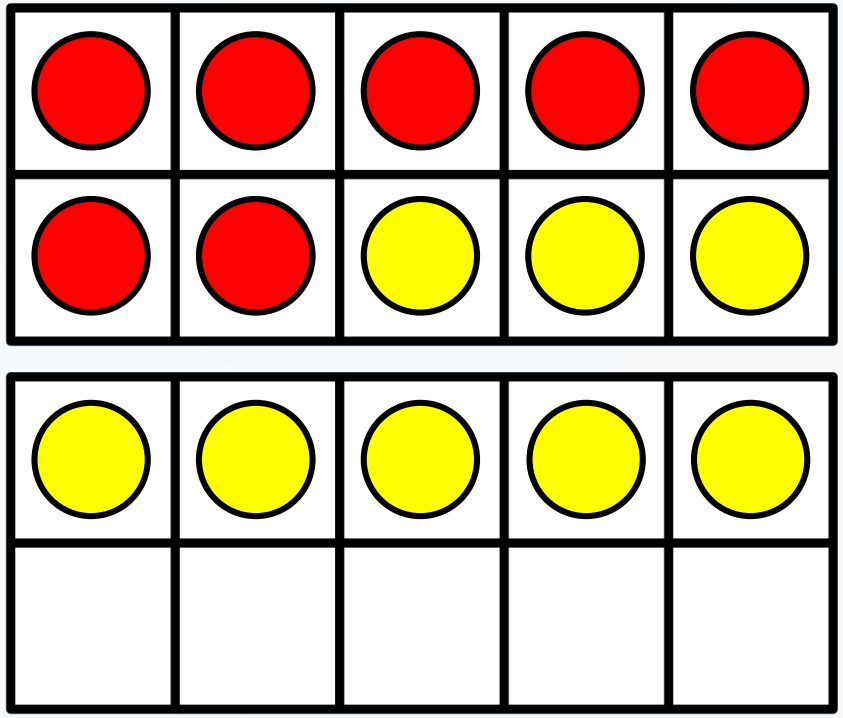
Fluency

Use the counters to complete the fact families.



7 + 8 = 15

8 + 7 = 15

15 - 7 = 8

15 - 8 = 7

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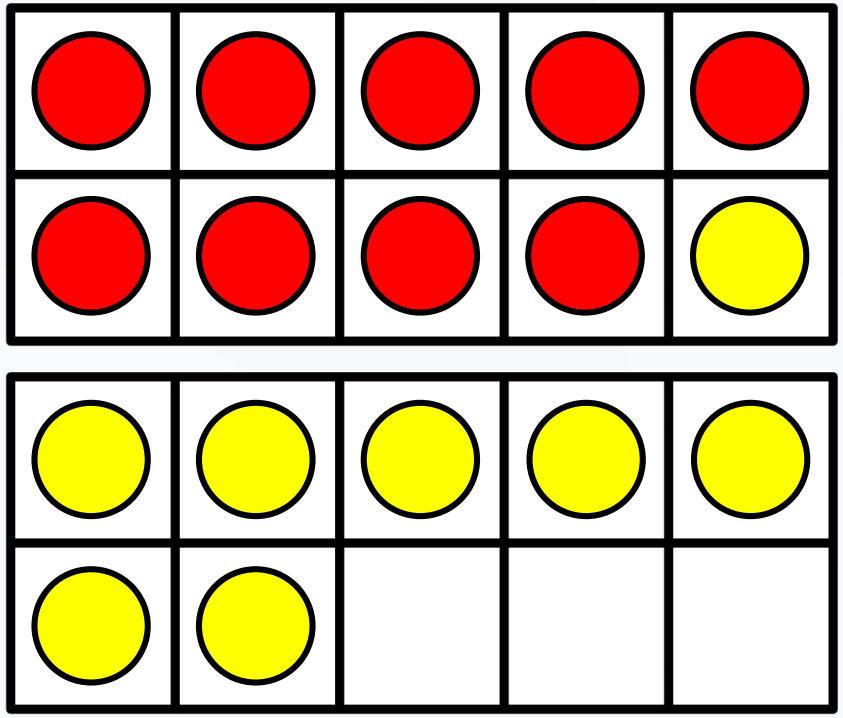
Fluency

Use the counters to complete the fact families.



9 + 8 = 17

8 + 9 = 17

17 - 9 = 8

17 - 8 = 9

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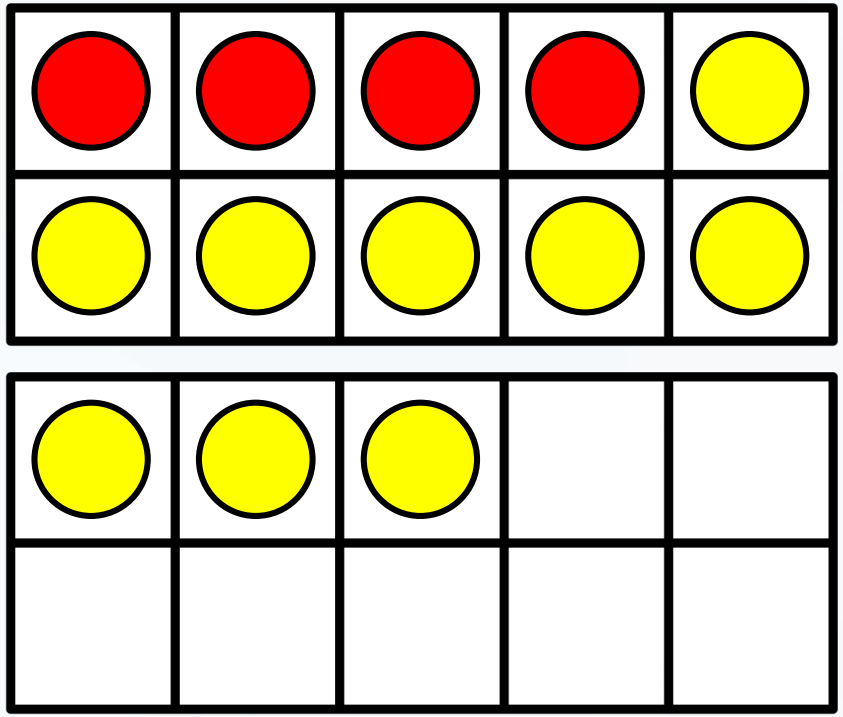
Reasoning

Spot the mistake. Explain your answer.



$5 + 8 = 13$

$8 + 5 = 13$

$13 - 5 = 8$

$13 - 8 = 5$

The ten frames are showing 4 + 9 = 13.
The stem sentences are showing 5 + 8 = 13.

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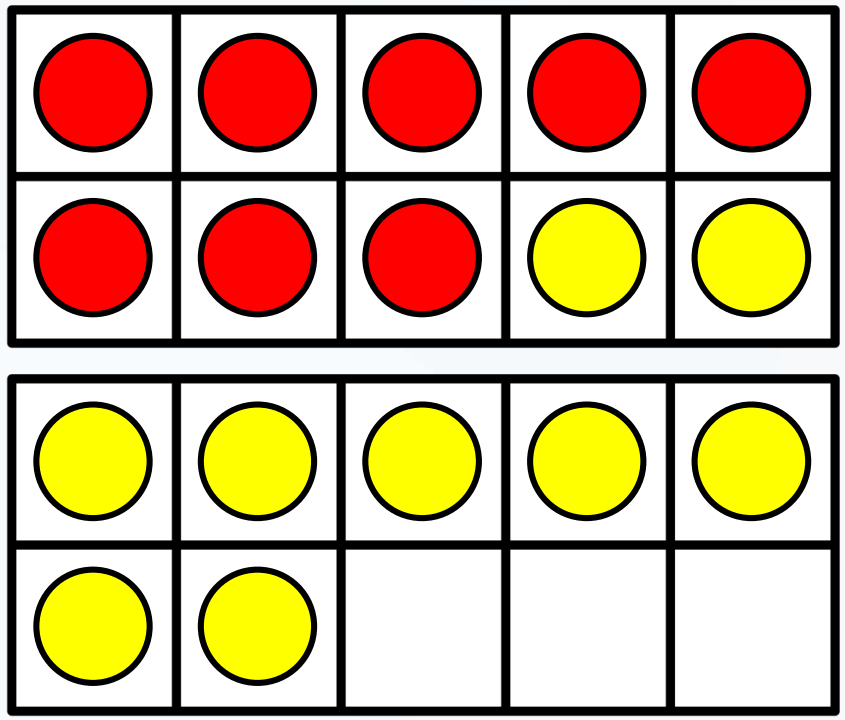
Problem solving

Which calculations match the ten frames?



A	B
17 + 9 = 8	8 + 9 = 17
17 + 8 = 9	9 + 8 = 17
9 - 8 = 17	17 - 9 = 8
8 - 9 = 17	17 - 8 = 9

The calculations under column B match the ten frames.

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Lesson 2

Step: Related facts
(Part-whole diagrams)

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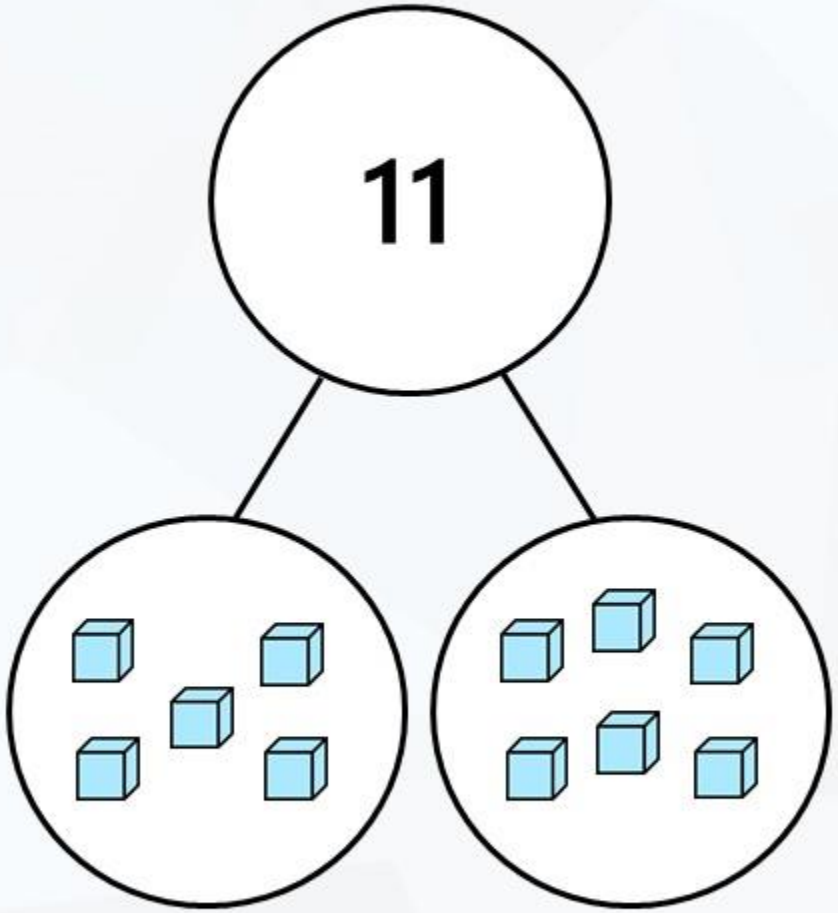
Use the base ten to complete the stem sentences.



5 + 6 = 11

6 + 5 = 11

11 - 5 = 6

11 - 6 = 5

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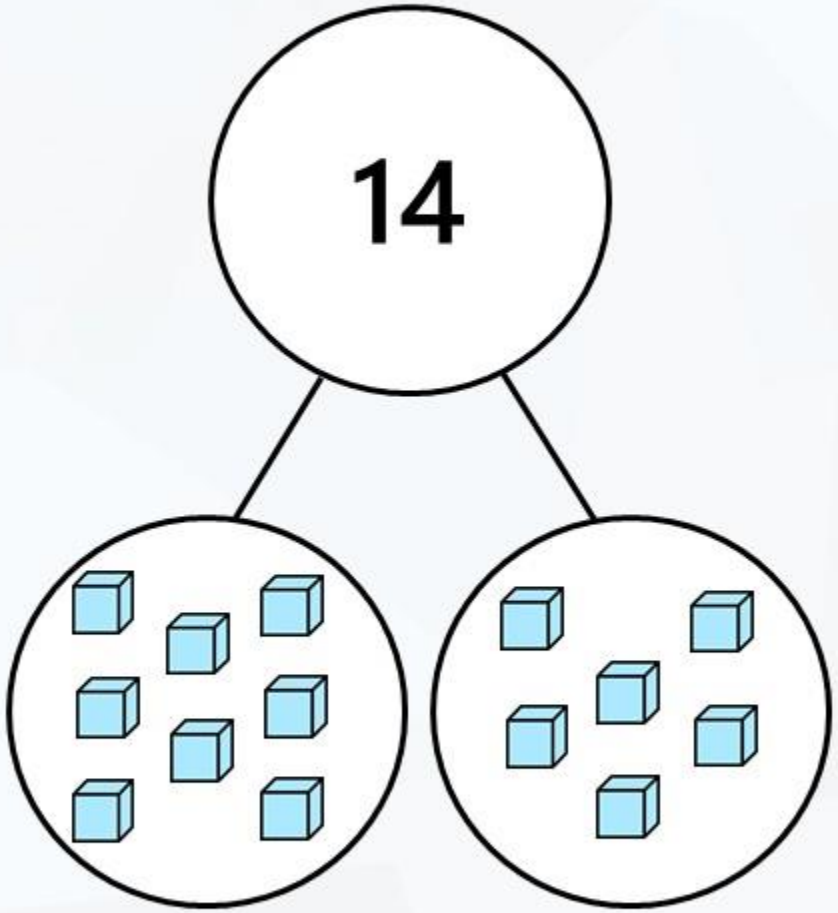
Use the base ten to complete the stem sentences.



8 + 6 = 14

6 + 8 = 14

14 - 8 = 6

14 - 6 = 8

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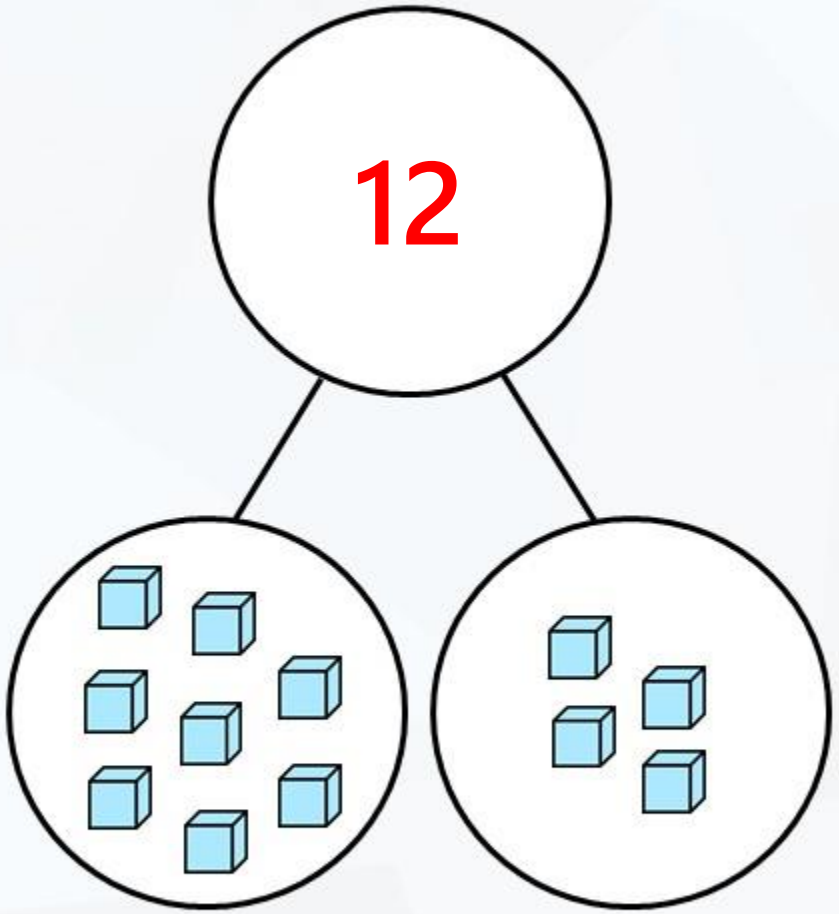
Use the base ten to complete the stem sentences.



8 + 4 = 12

4 + 8 = 12

12 - 8 = 4

12 - 4 = 8

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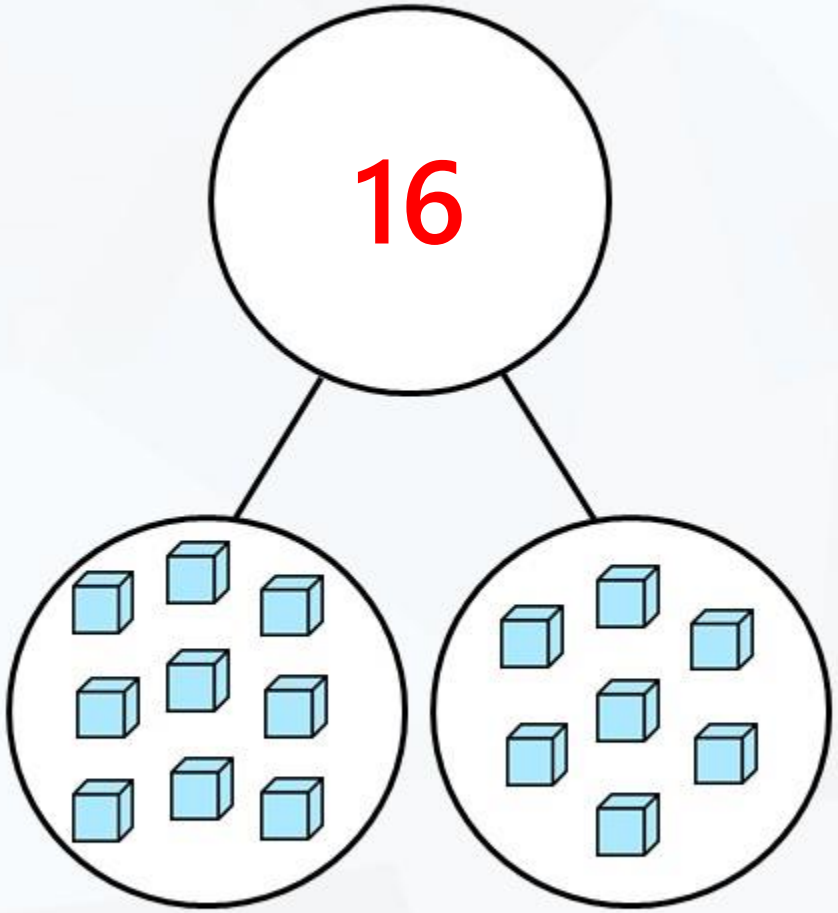
Use the base ten to complete the stem sentences.



9 + 7 = 16

7 + 9 = 16

16 - 9 = 7

16 - 7 = 9

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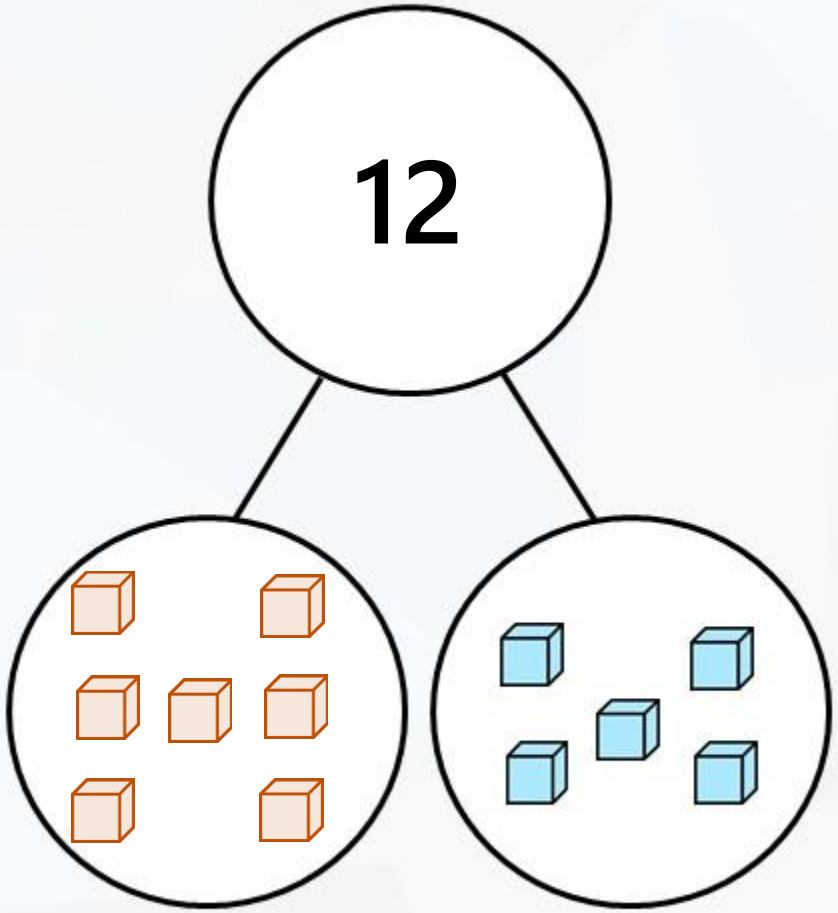
Use the base ten to complete the stem sentences.



7 + 5 = 12

5 + 7 = 12

12 - 7 = 5

12 - 5 = 7

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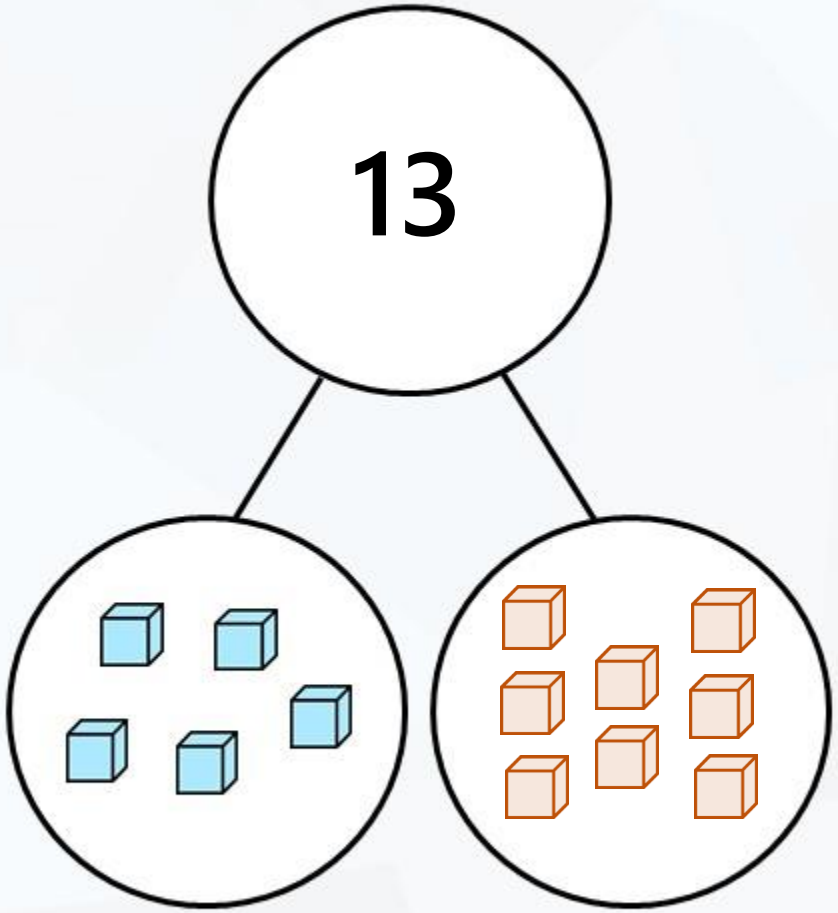
Fluency

Use the base ten to complete the stem sentences.



5 + 8 = 13

8 + 5 = 13

13 - 5 = 8

13 - 8 = 5

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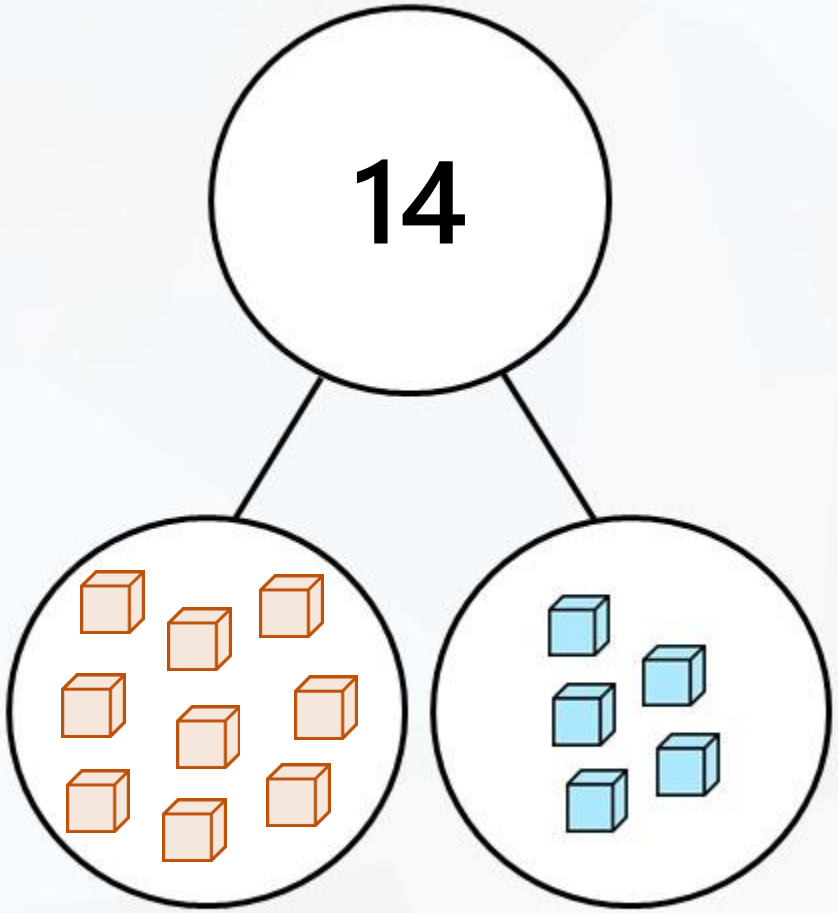
Use the base ten to complete the stem sentences.



9 + 5 = 14

5 + 9 = 14

14 - 9 = 5

14 - 5 = 9

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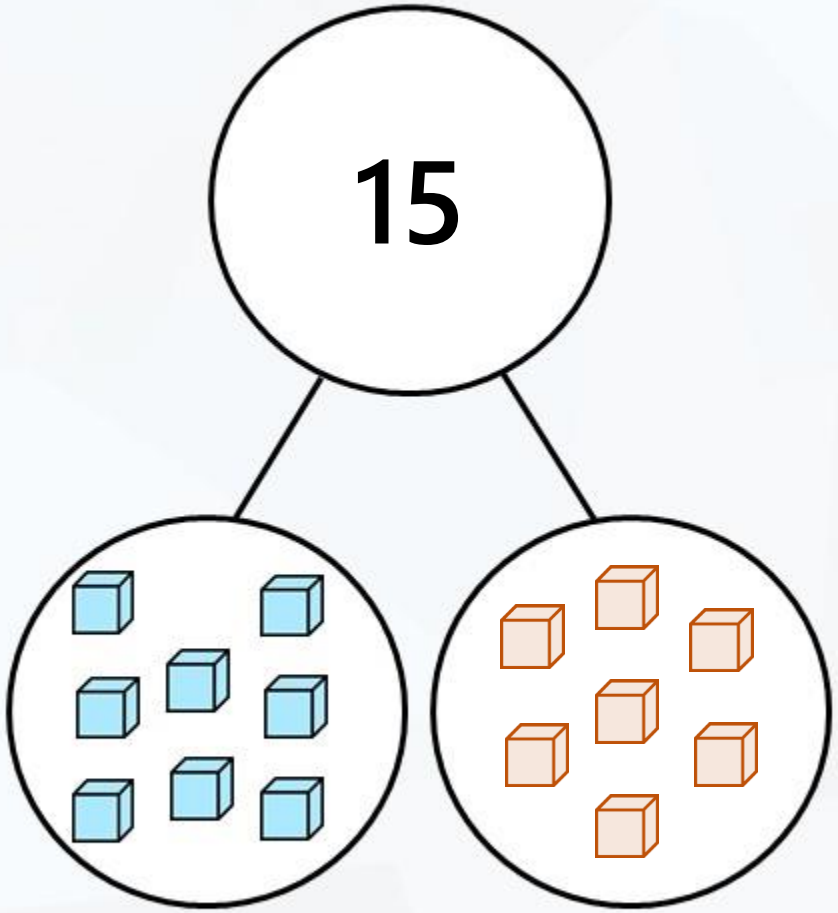
Fluency

Use the base ten to complete the stem sentences.



8 + 7 = 15

7 + 8 = 15

15 - 8 = 7

15 - 7 = 8

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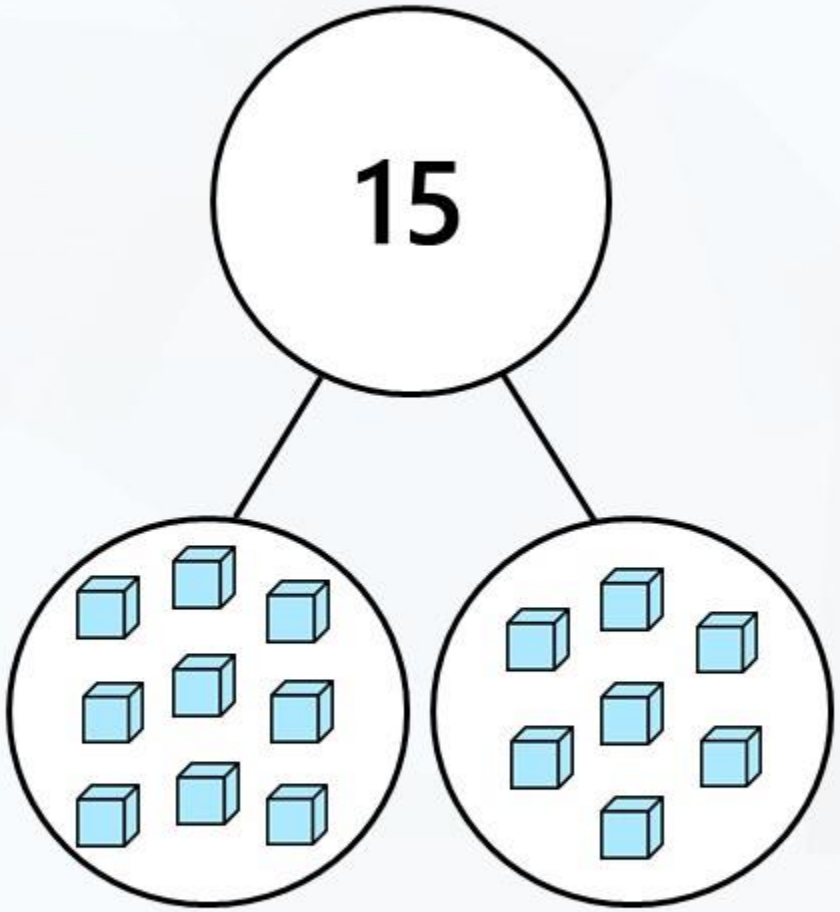
Reasoning

Spot the mistake. Explain your answer.



$8 + 7 = 15$

$7 + 8 = 15$

$15 - 8 = 7$

$15 - 7 = 8$

One part of the part-whole model is showing 9 cubes not 8.

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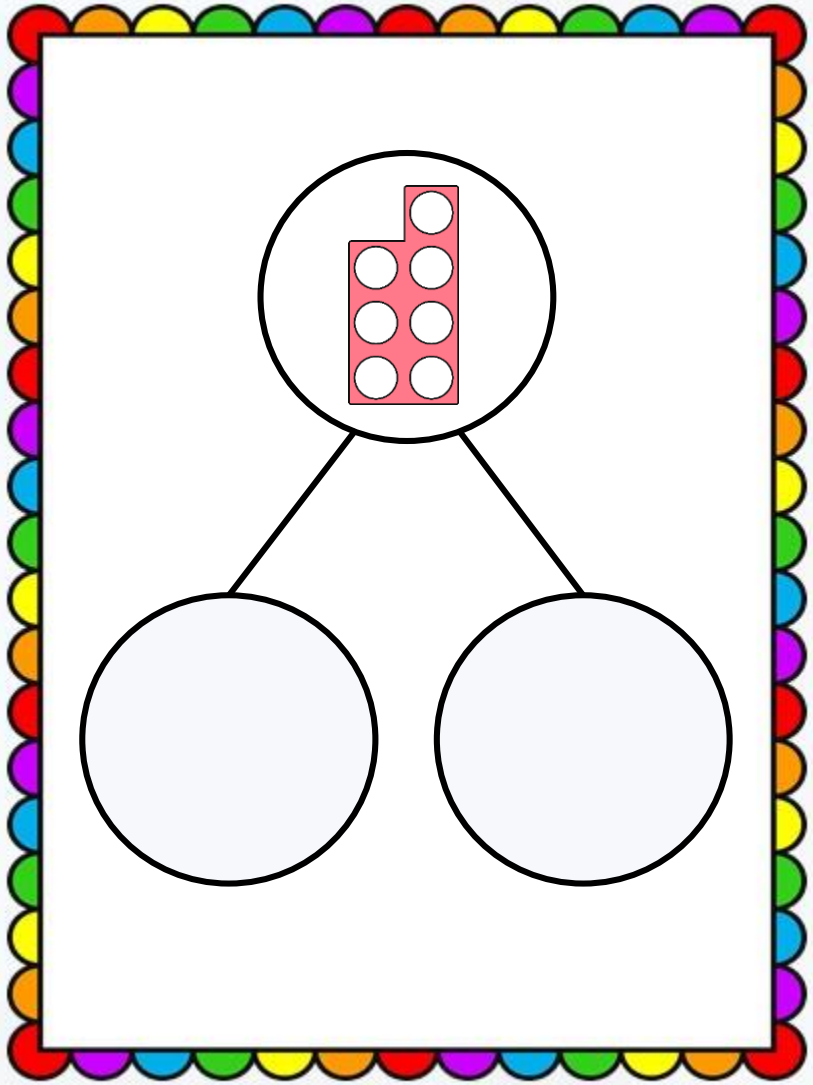
Problem solving

How many fact families can you find?



Addition	Addition	Subtraction	Subtraction
0 + 7 = 7	7 + 0 = 7	7 – 0 = 7	7 – 7 = 0
1 + 6 = 7	6 + 1 = 7	7 – 1 = 6	7 – 6 = 1
2 + 5 = 7	5 + 2 = 7	7 – 2 = 5	7 – 5 = 2
3 + 4 = 7	4 + 3 = 7	7 – 3 = 4	7 – 4 = 3

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Lesson 3

Step: Related facts (Bar models)

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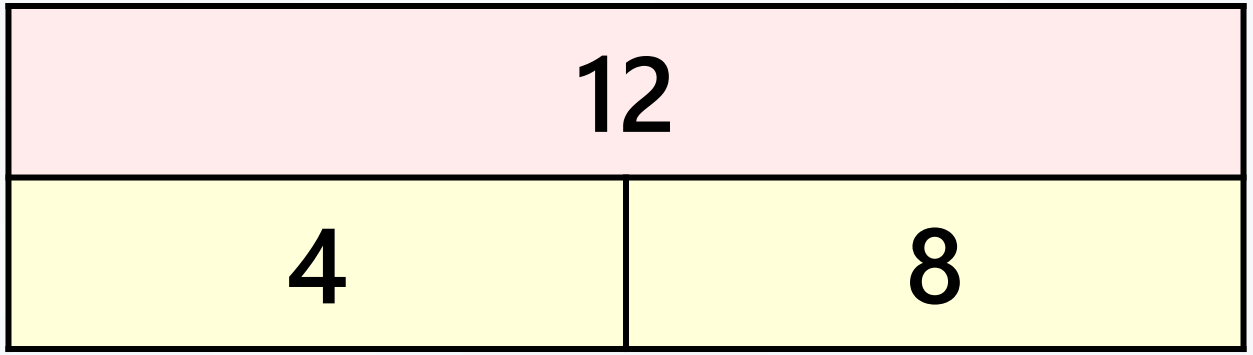
Which calculations match the bar model?



4 + 8 = 12	12 + 8 = 4
12 + 4 = 8	8 + 4 = 12
12 – 4 = 8	8 – 4 = 12
4 – 8 = 12	12 – 8 = 4

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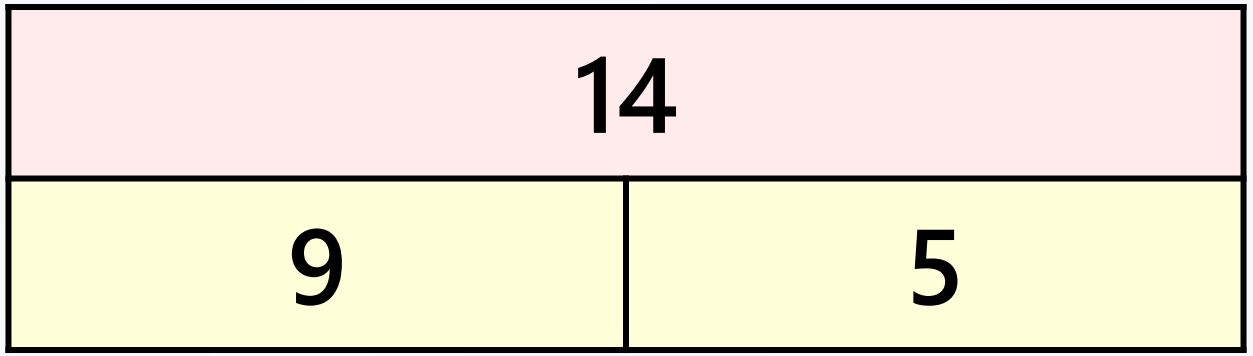
Which calculations match the bar model?



14 + 5 = 9	5 + 9 = 14
9 + 5 = 14	14 + 9 = 5
5 – 9 = 14	14 – 5 = 9
14 – 9 = 5	9 – 5 = 14

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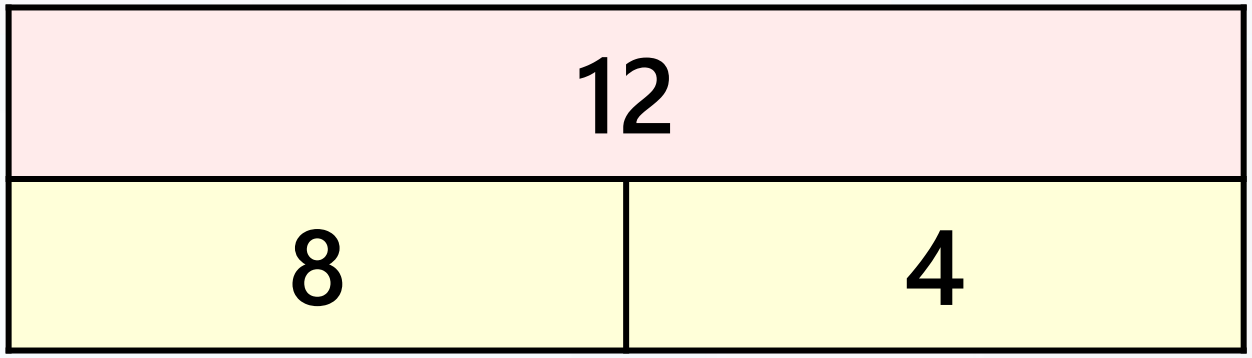
Fluency

Complete the stem sentences.



8 + 4 = 12

4 + 8 = 12

12 - 8 = 4

12 - 4 = 8

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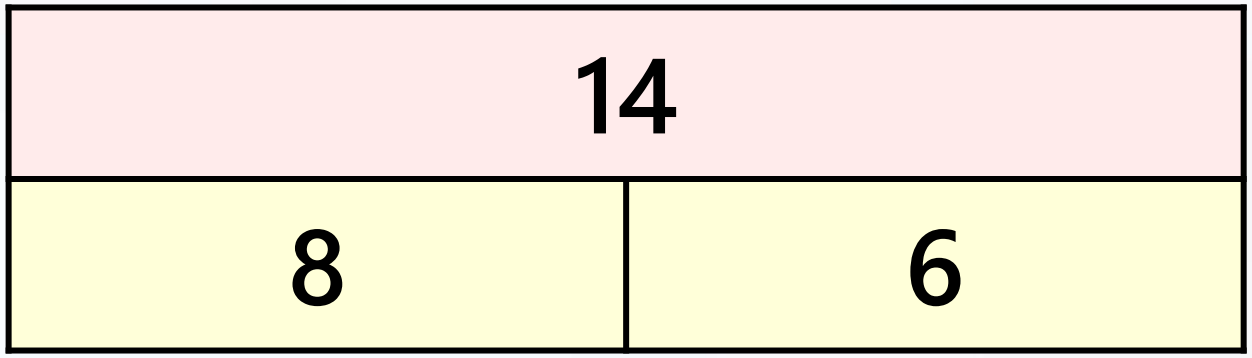
Fluency

Complete the stem sentences.



8 + 6 = 14

6 + 8 = 14

14 - 8 = 6

14 - 6 = 8

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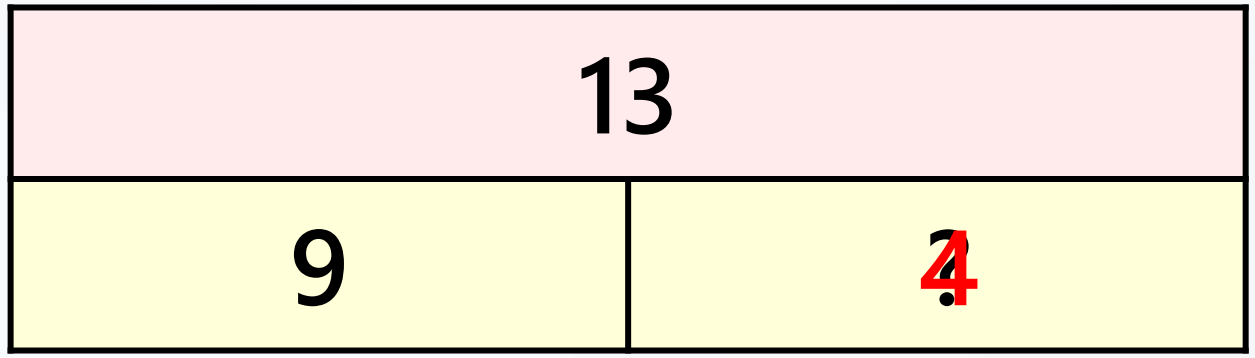
Fluency

Complete the stem sentences.



9 + 4 = 13

4 + 9 = 13

13 - 9 = 4

13 - 4 = 9

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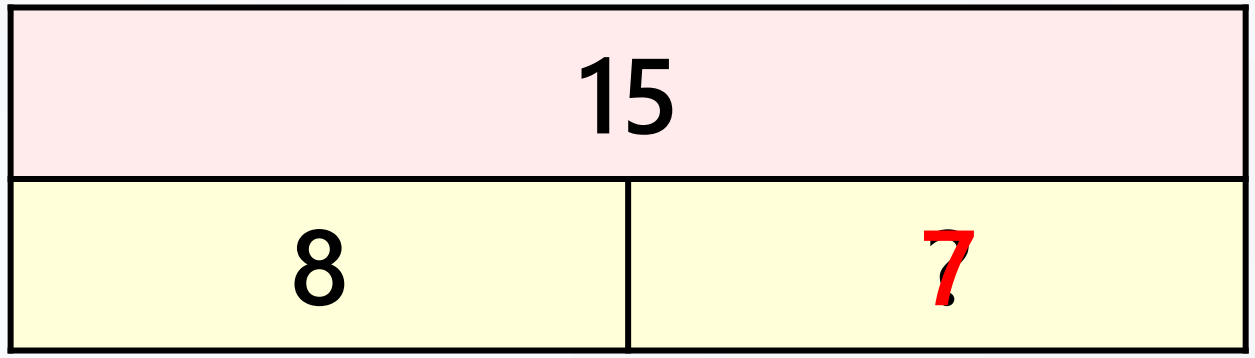
Fluency

Complete the stem sentences.



8 + 7 = 15

7 + 8 = 15

15 - 8 = 7

15 - 7 = 8

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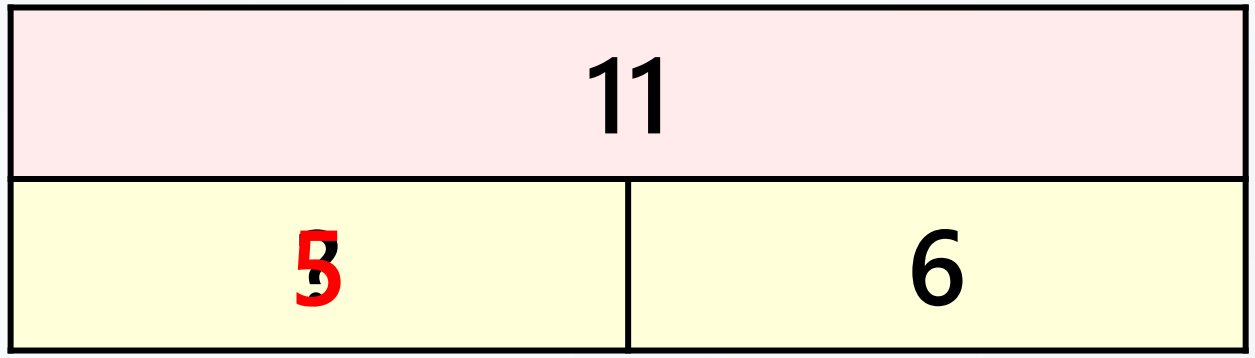
Fluency

Complete the stem sentences.



5 + 6 = 11

6 + 5 = 11

11 - 5 = 6

11 - 6 = 5

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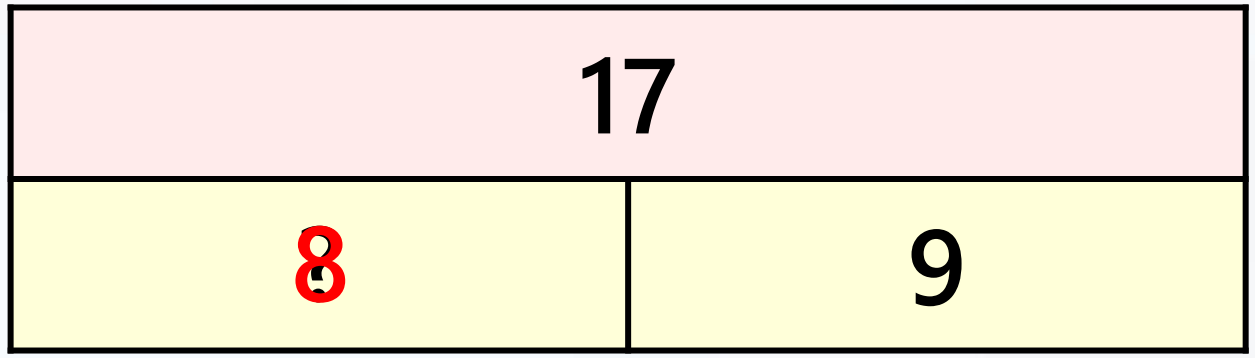
Fluency

Complete the stem sentences.



8 + 9 = 17

9 + 8 = 17

17 - 8 = 9

17 - 9 = 8

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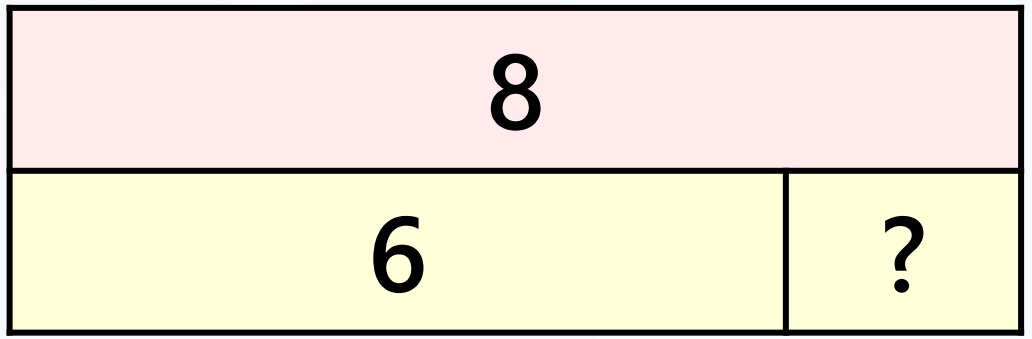
The missing number is 14.



Is Ben correct?
If not, what mistake might Ben have made?

No Ben is not correct, he has mistaken the missing number for the answer. 8 + 6 = 14.

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Problem solving

Use the number frames to complete the bar model.

13
9 | 4

List the related facts.

9 + 4 = 13

9 + 4 = 13

13 - 9 = 4

13 - 4 = 9

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Lesson 4

Step: Comparing number sentences

Practical

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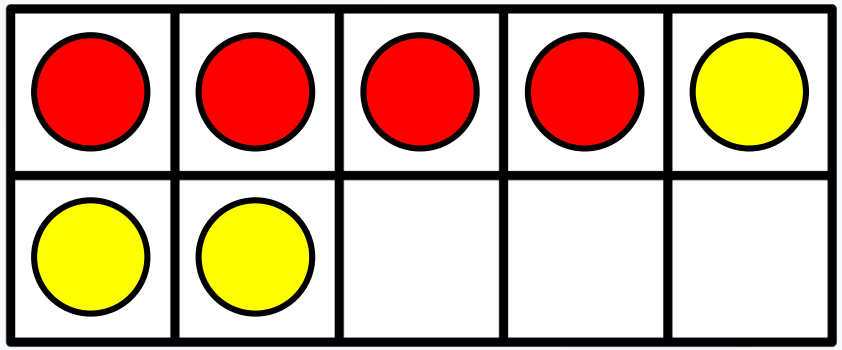
Fluency

Which card will correctly compare the number sentence?

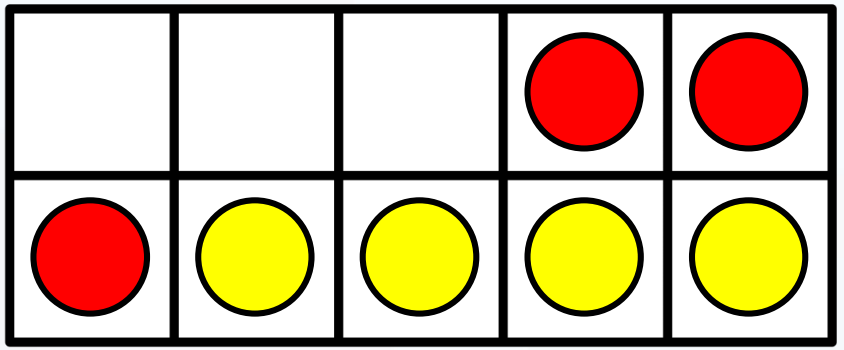


3 + 4

is more than

is less than

is equal to



4 + 3

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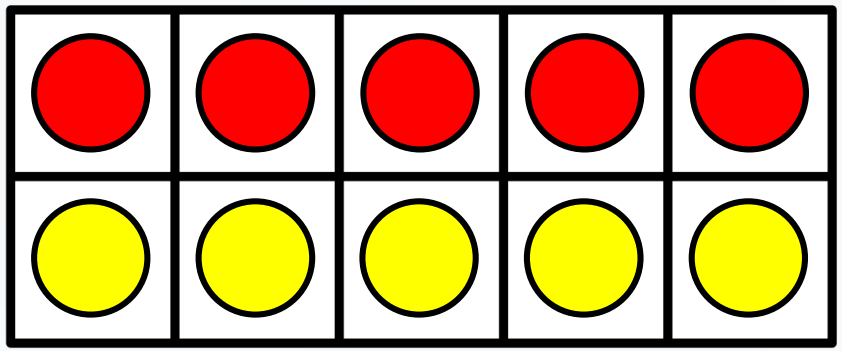
Fluency

Which card will correctly compare the number sentence?

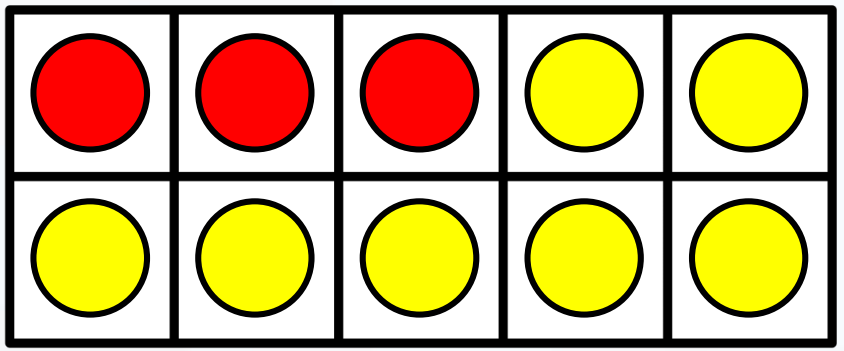


5 + 6

is more than

is less than

is equal to



3 + 9

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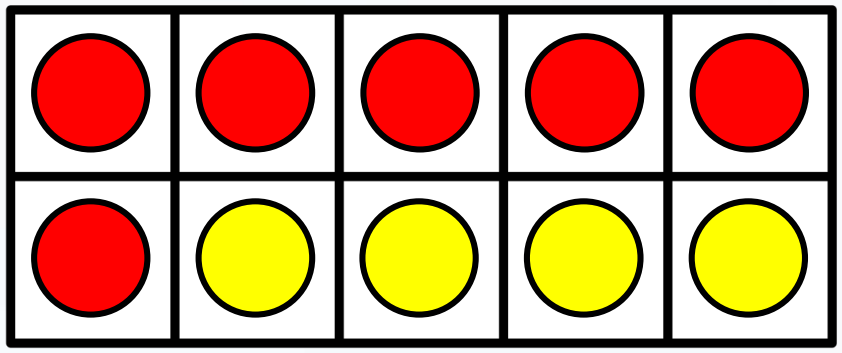
Fluency

Which card will correctly compare the number sentence?

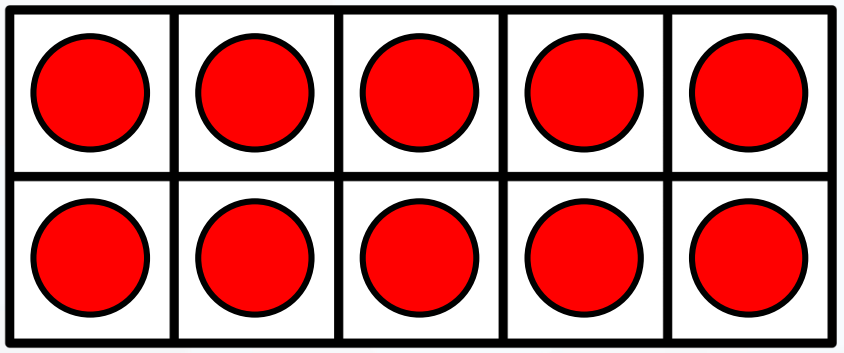


6 + 9

is more than

is less than

is equal to



16 - 3

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Fluency

Which card will correctly compare the number sentence?

7 + 8

is more than

is less than

is equal to

19 - 5

© Primary Stars Education

Fluency

Which card will correctly compare the number sentence?

15 - 2

is more than

is less than

is equal to

7 + 6

© Primary Stars Education

Fluency

Which card will correctly compare the number sentence?

4 + 9

is more than

is less than

is equal to

6 + 8

© Primary Stars Education

Fluency

Which card will correctly compare the number sentence?

5 + 8

is more than

is less than

is equal to

7 + 6

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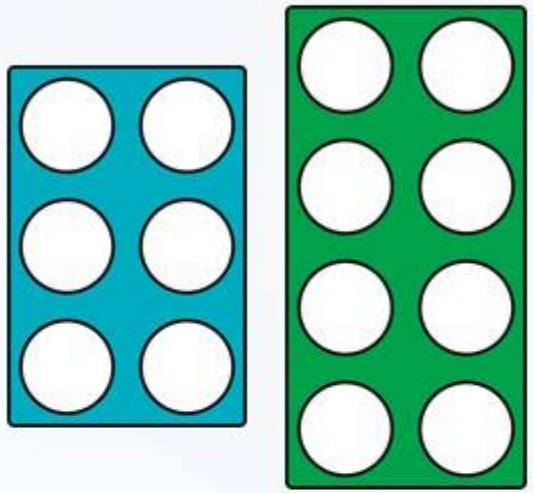
True or false? The comparison is correct.

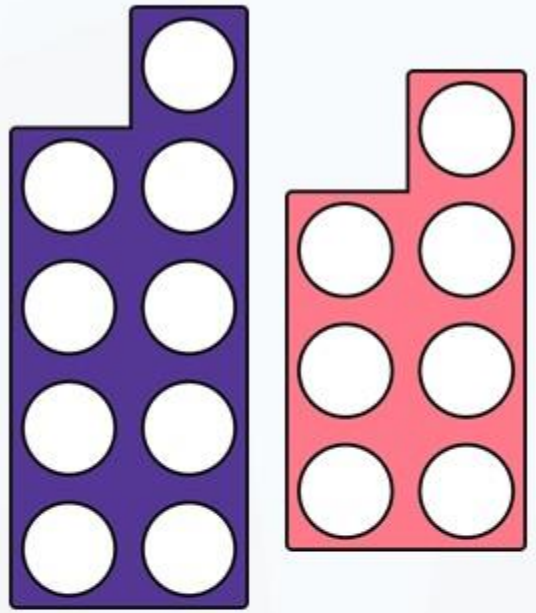


6 + 8

is more than

is less than

is equal to



9 + 7

False, 9 + 7 = 16 which is more than 6 + 8 = 14.
The answer should be less than.

How could you make it correct?

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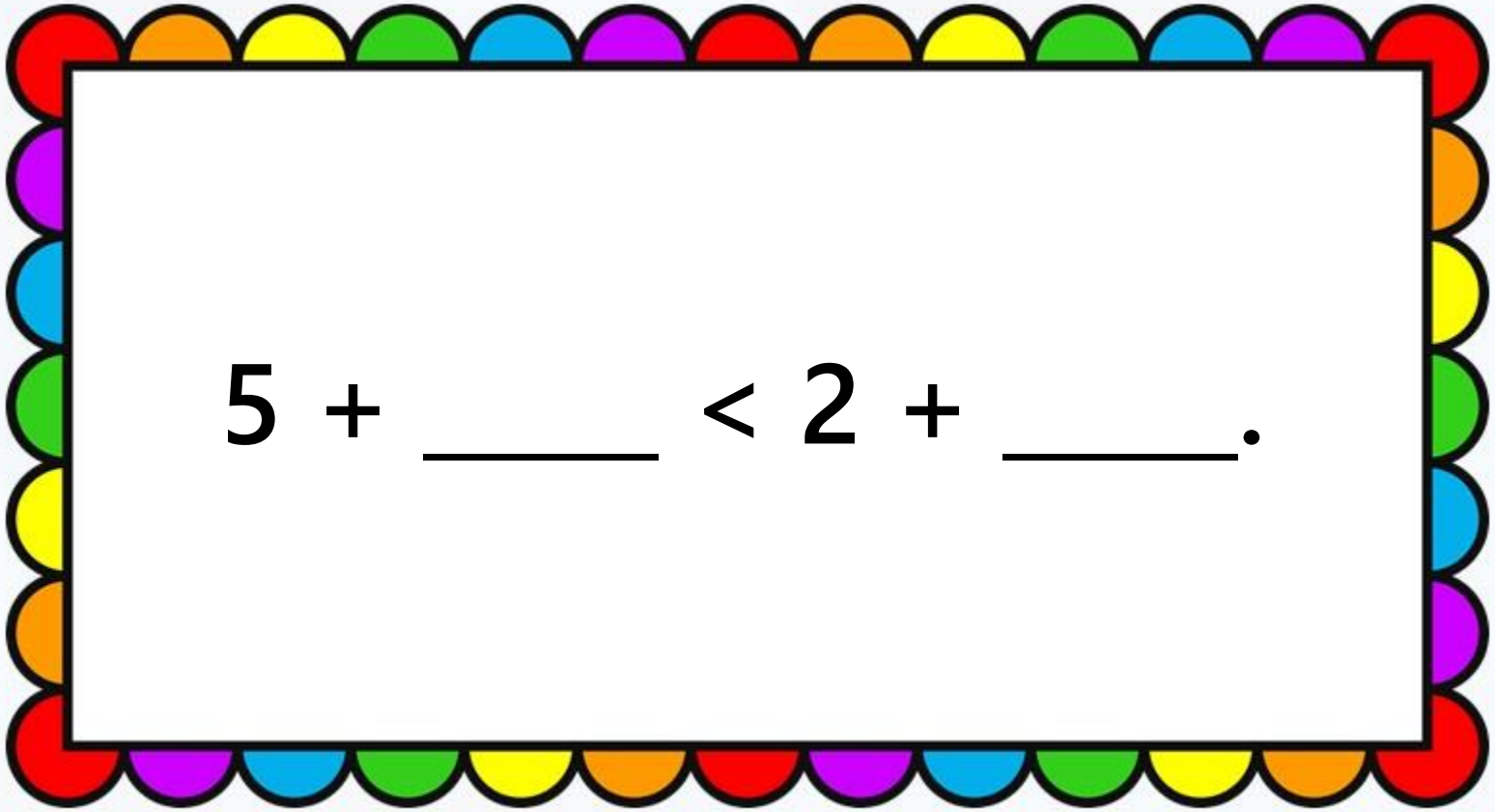
Problem solving

Complete the number sentence comparison to make it true.



Can you think of any more answers?

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Lesson 5

Step: Subtraction – Crossing 10 (5)

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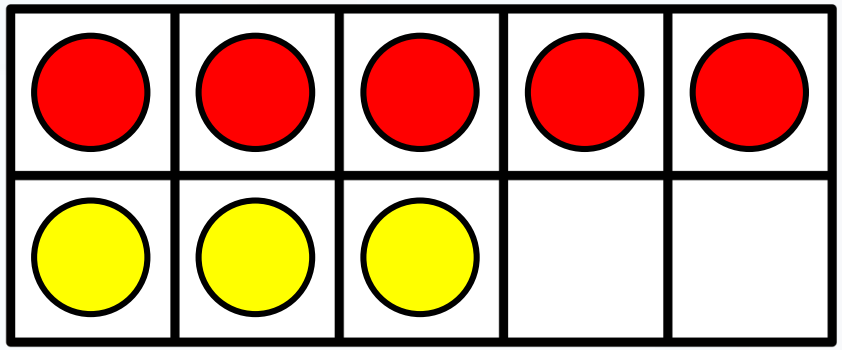
RECAP:
Which card will correctly compare the number sentence?

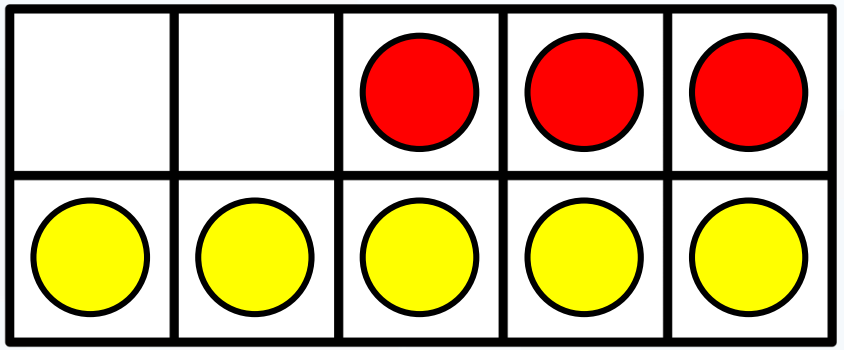


5 + 3

is more than

is less than

is equal to



3 + 5

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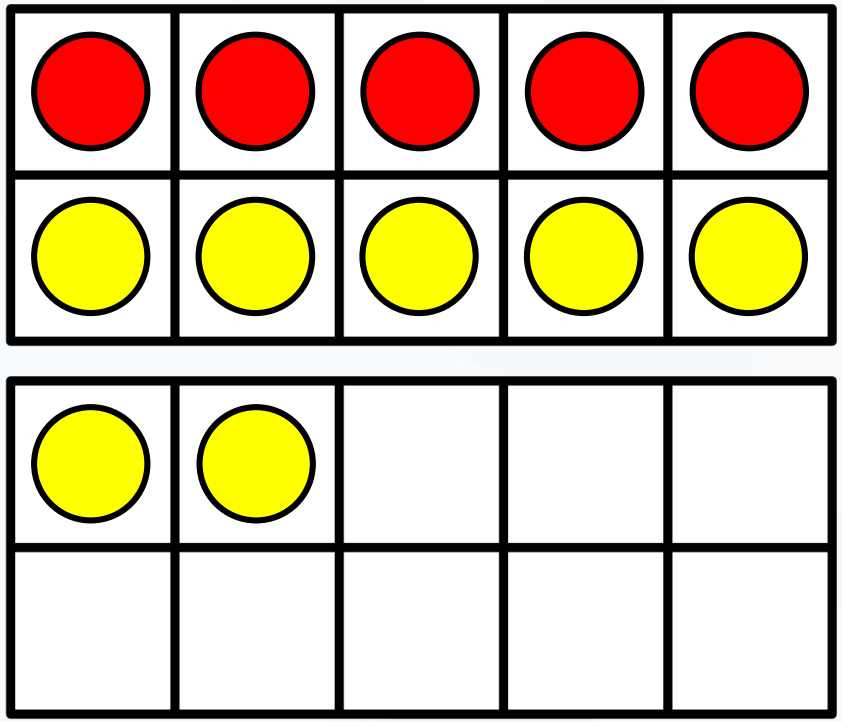
RECAP:
Which card will correctly compare the number sentence?

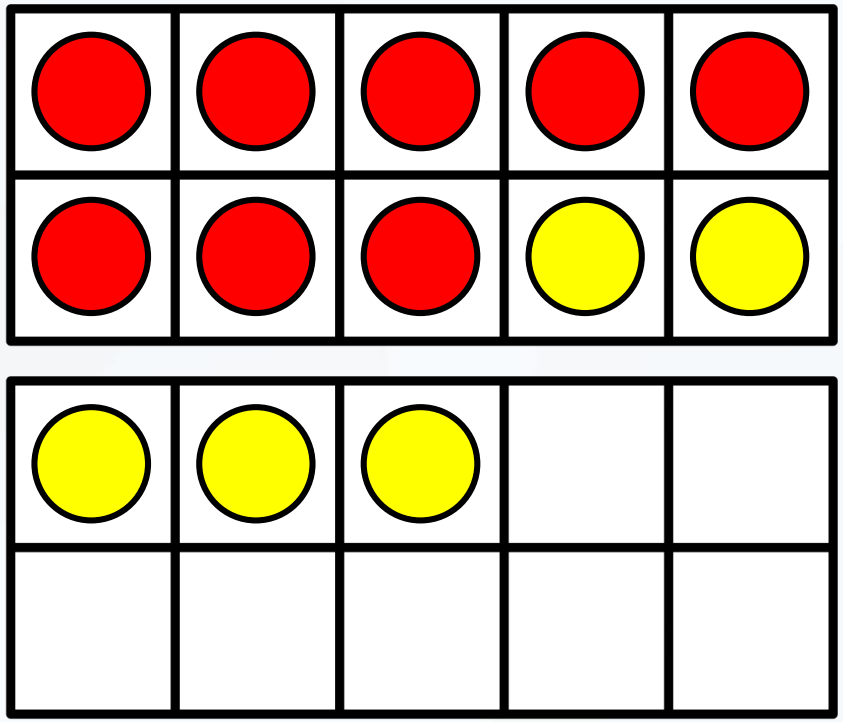


5 + 7

is more than

is less than

is equal to



8 + 5

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Fluency

Which card will correctly compare the number sentence?

5 + 9 _____ 8 + 6

is equal to

14

14

is more than

is less than

is equal to

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Fluency

Which card will correctly compare the number sentence?

3 + 9 is less than 8 + 5

12

13

is more than

is less than

is equal to

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Fluency

Which card will correctly compare the number sentence?

8 + 4 _____ 5 + 6

is more than

12

11

is more than

is less than

is equal to

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Fluency

Compare the number sentences using >, < or =.

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

14 | 14

$6 + 9 \quad < \quad 19 - 3$

15 | 16

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Fluency

Compare the number sentences using >, < or =.

$3 + 8 \quad \_\_<\_\_ \quad 14 - 2$

11 12

$16 - 3 \quad \_\_>\_\_ \quad 5 + 7$

13 12

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Fluency

Compare the number sentences using >, < or =.

17 - 4 ___=___ 9 + 4

13 13

8 + 8 ___>___ 9 + 6

16 15

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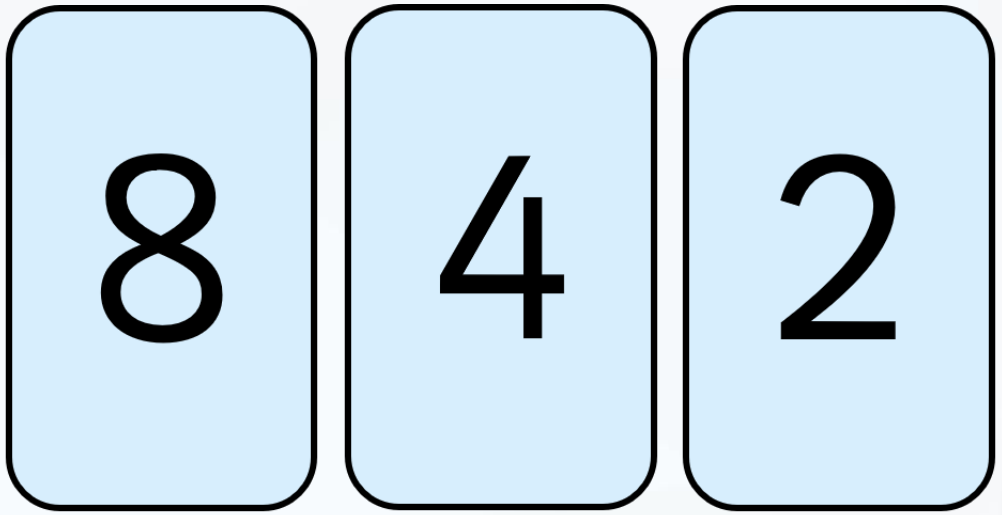
Fluency

Using the digit cards once, complete the stem sentences so the comparisons are correct.



$13 - \underline{2} = 9 + 2$

$5 + 7 > 19 - \underline{8}$

$17 - \underline{4} < 8 + 6$

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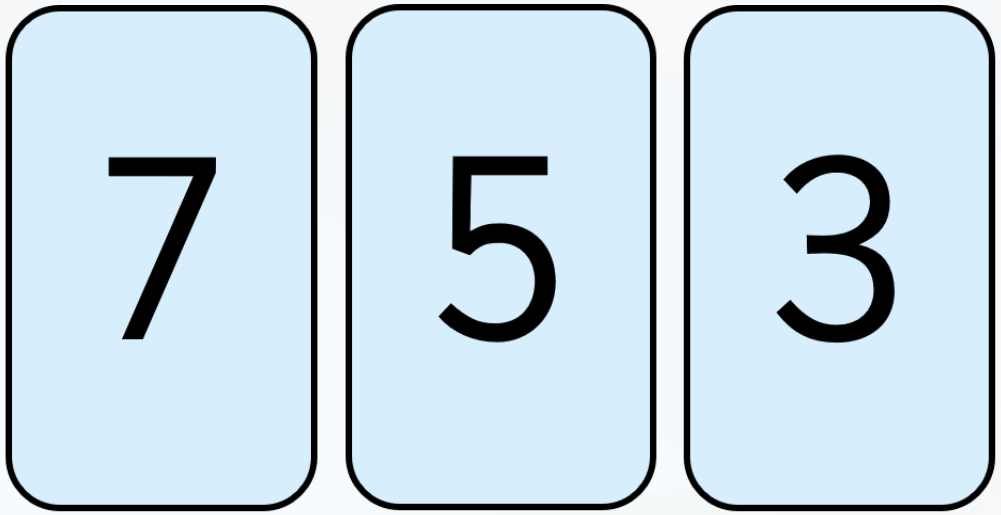
Fluency

Using the digit cards once, complete the stem sentences so the comparisons are correct.



$14 - 3 < 7 + \underline{5}$

$5 + 4 = 16 - \underline{7}$

$15 - \underline{3} > 8 + 3$

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I can put a 3 in the space to make the comparison true.

$$13 - 2 \quad < \quad 9 + \underline{\quad 3 \quad}$$

Is Kat correct?
Explain your answer.

Yes Kat is correct.
13 – 2 = 11 which is < 9 + 3 = 12.

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Problem solving

What numbers could make the story true? List all possibilities.

Mo has 17 grapes and eats 4 of them.

Jack has 9 grapes.

He then gets _____ more.

Jack has less grapes than Mo.

Jack has either 1, 2, 3 or 0 more grapes.

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