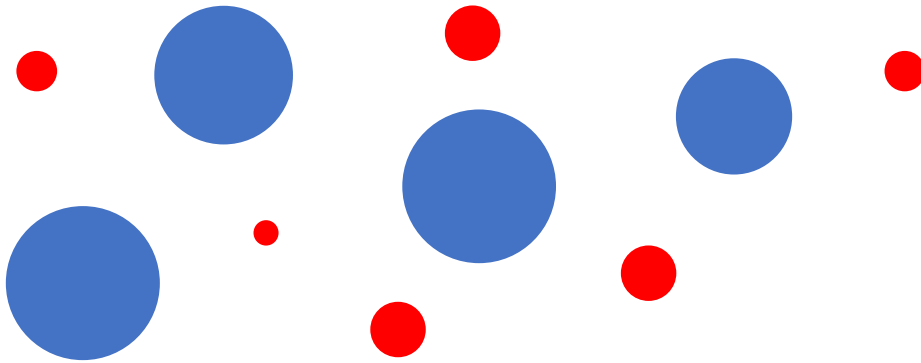


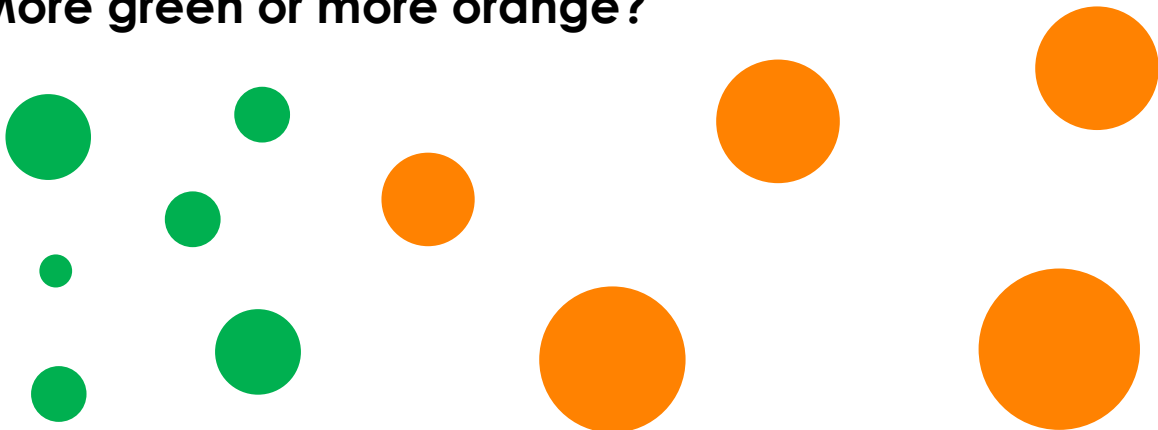
Explain

More blue circles or more red circles?



Explain

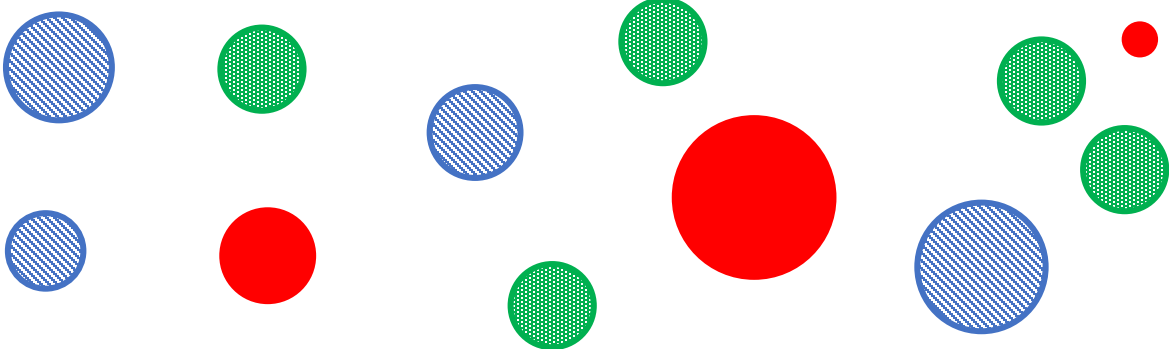
More green or more orange?



Explain

There is less... than...

There is more... than...



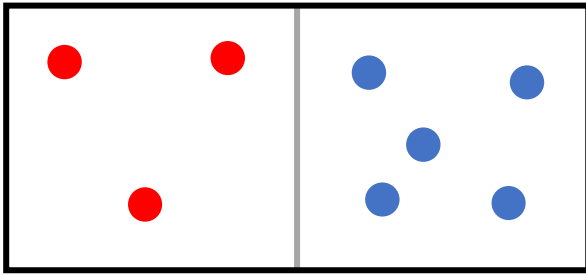
The smallest circle is...

The largest circle is...

Read the Pictures

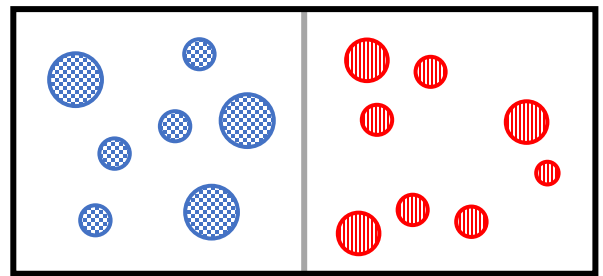
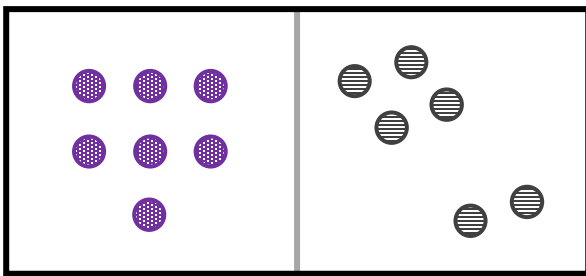
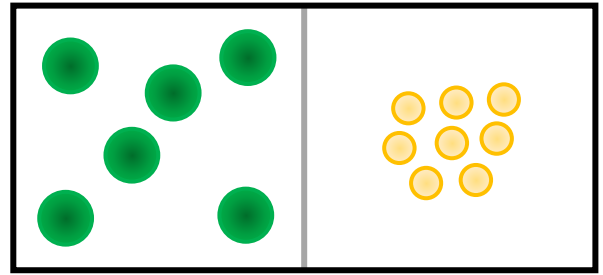
Which is **more circles**?

Which is **less circles**?



less

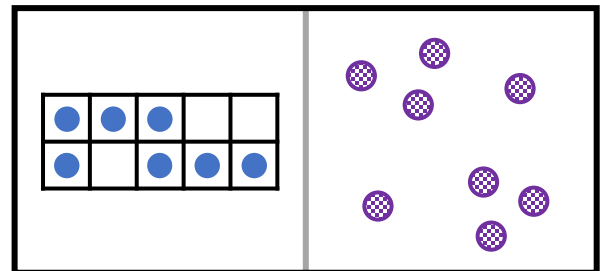
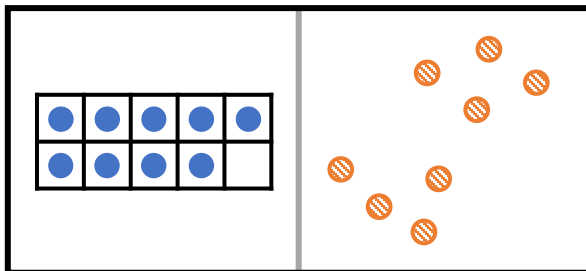
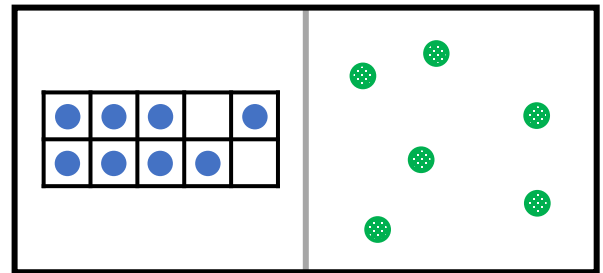
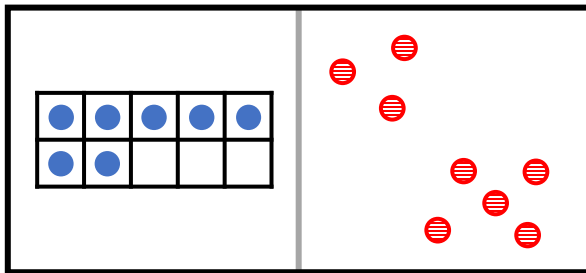
more



Read the Pictures

Which is **more circles**?

Which is **less circles**?



Odd One Out

ten		
	10	

Odd One Out

six		
	6	

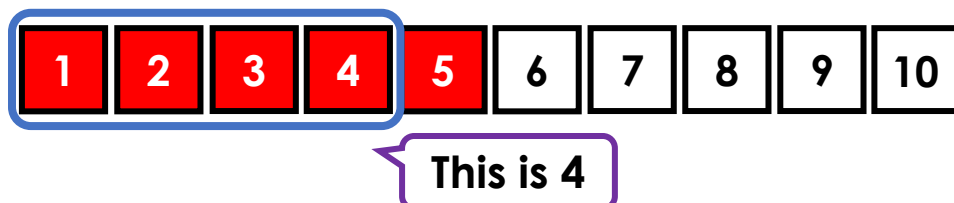
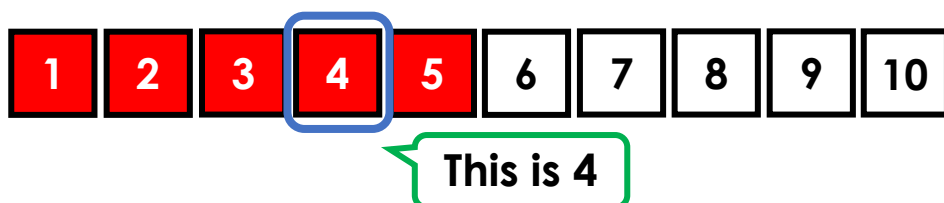
Odd One Out

eight		
	8	

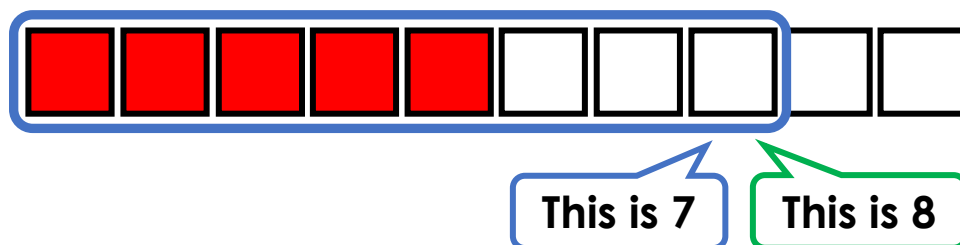
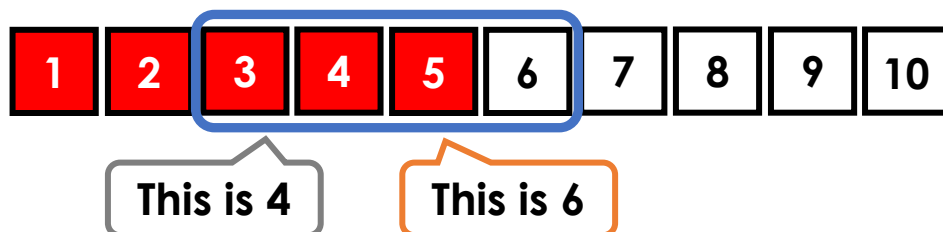
Odd One Out

seven		
	7	

Which Answer?



Which Answer?



Agree or Disagree?

✓ or x



6 is more than 4

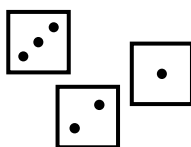
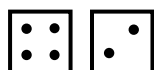
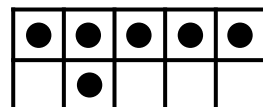
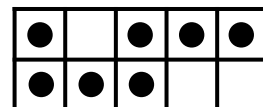
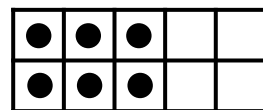
7 is less than 5

6 is 1 more than 5

9 is 1 less than 8

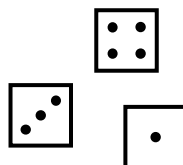
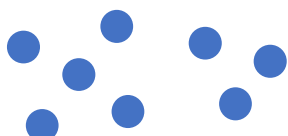
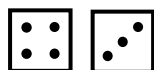
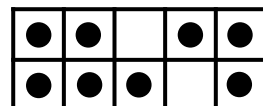
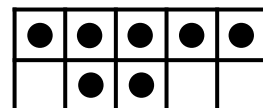
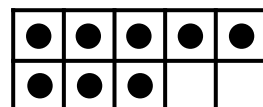
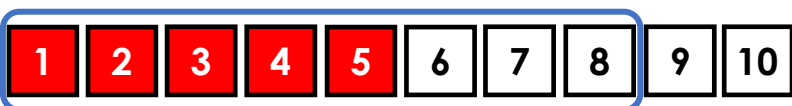
Correct or Not Correct? ✓ or x

Which pictures show 6?



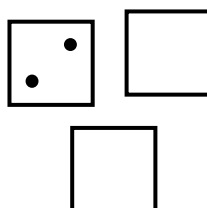
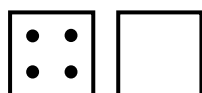
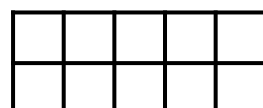
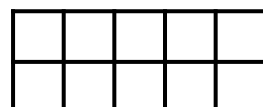
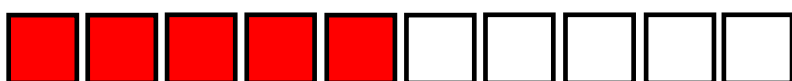
Correct or Not Correct? ✓ or x

Which pictures show 8?



Different Ways

Show 7. Do in different ways.



Different Ways

five	

six	

Fill the gaps.

	8

	9

- one
- two
- three
- four
- five
- six
- seven
- eight
- nine
- ten

Different Ways

	6

nine	

	7

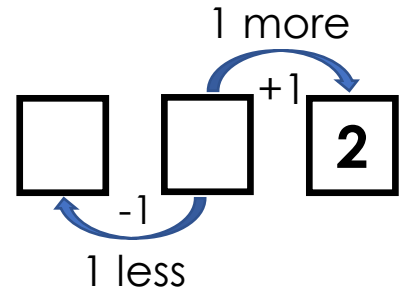
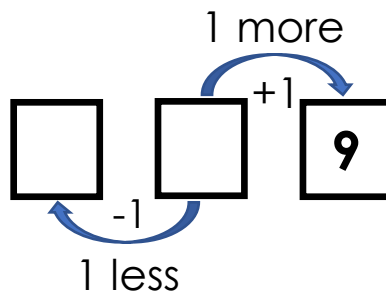
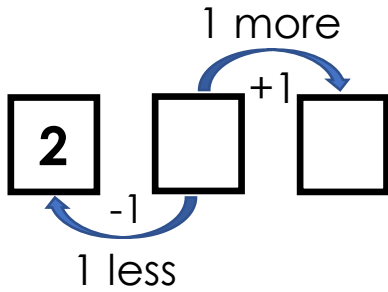
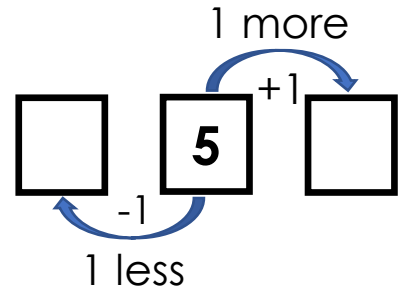
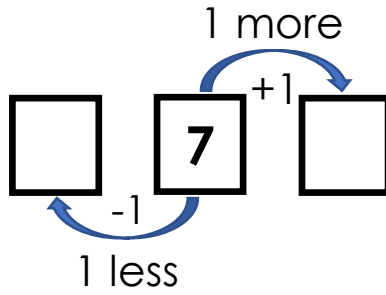
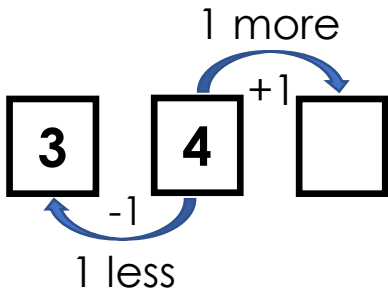
Fill the gaps.

five	5

	10

- one
- two
- three
- four
- five
- six
- seven
- eight
- nine
- ten

Spot the Pattern



Explain the Mistakes



1 less than 8 is 9

5 is 1 more than 6

True or False? ✓ or ✗

6 is 1 more than 7

1 more than 6 is 7

8 is 1 less than 9

1 less than 8 is 7

0 is 1 less than 1

1 more than 0 is 2

Small Difference Questions

1 2 3 4 5 6 7 8 9 10

4 is 1 more than

4 is 1 less than

is 1 more than 4

is 1 less than 4

1 less than 5 is

is 1 more than 7

7 is 1 less than

7 is 1 more than

is 1 less than 6

1 more than 6 is

Small Difference Questions

6 is 1 more than

4 is 1 less than

is 1 more than 9

is 1 less than 9

1 less than 8 is

is 1 more than 8

8 is 1 less than

6 is 1 more than

is 1 less than 6

1 more than 7 is

Different Answers

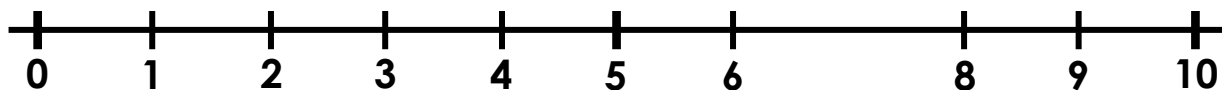
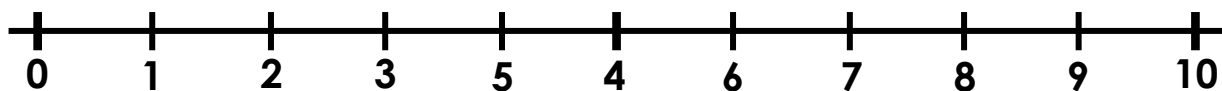
I think of an odd number.

My number is less than 10.

5 is less than my number.

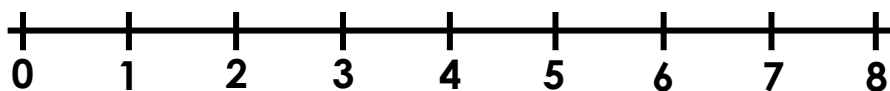
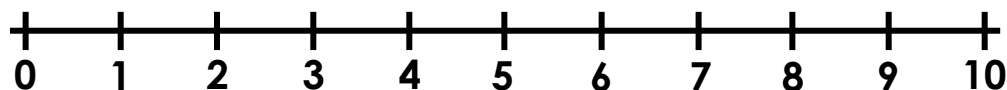
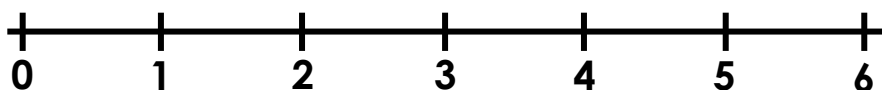
What could my number be?

Spot the Mistakes

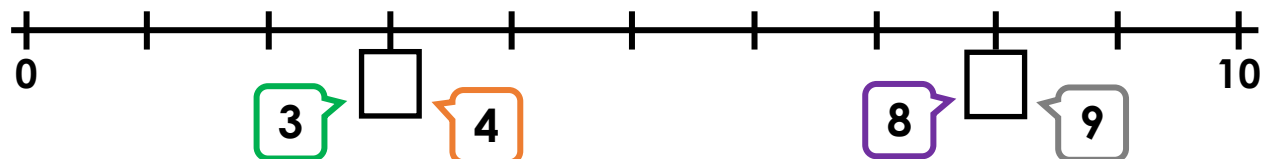
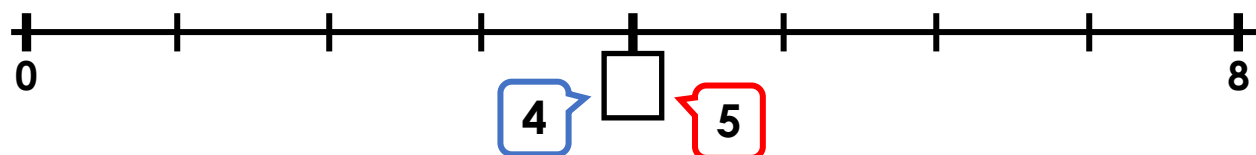


Read the Pictures

Circle the number that is **half-way**.

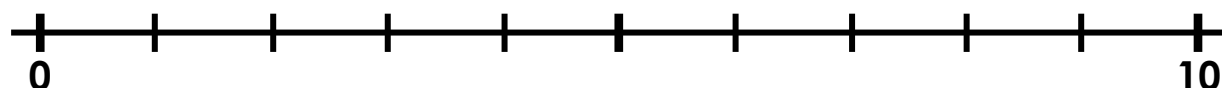
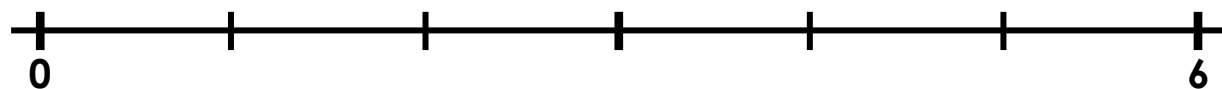
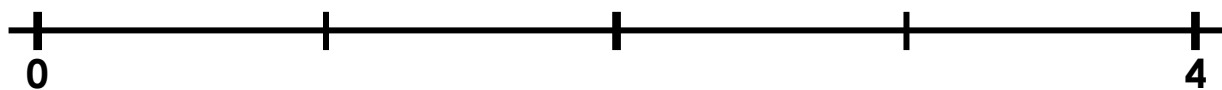


Which Answer?



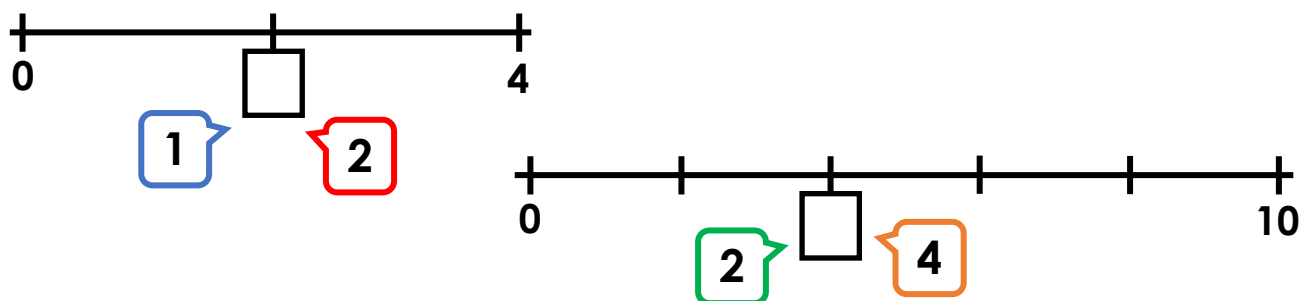
Read the Picture

Put **2** on each number line:



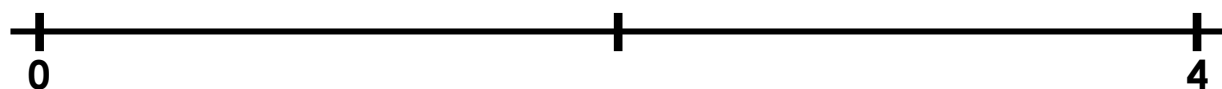
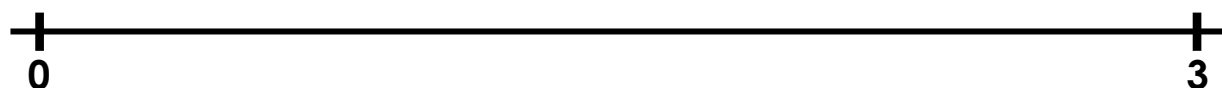
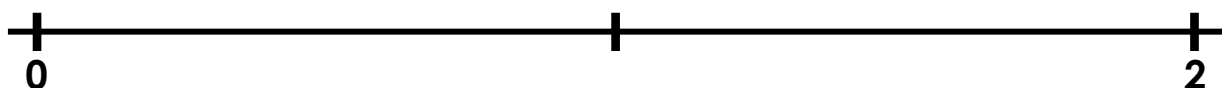
What do you notice?

Which Answer?



Read the Picture

Put **1** on each number line:



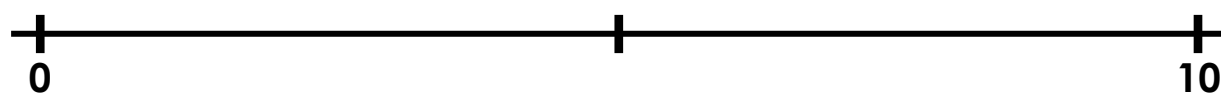
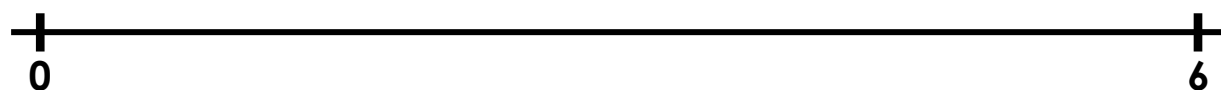
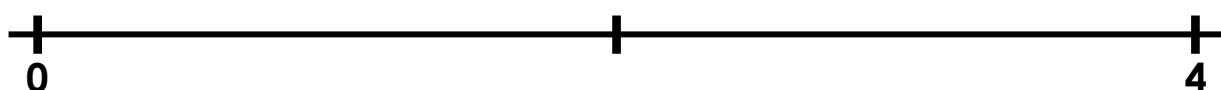
What do you notice?

Which Answer?



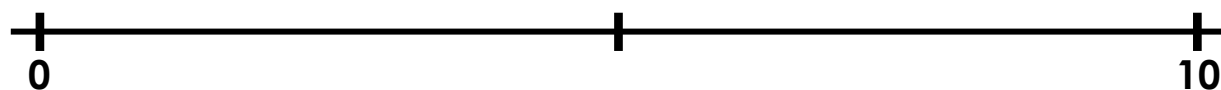
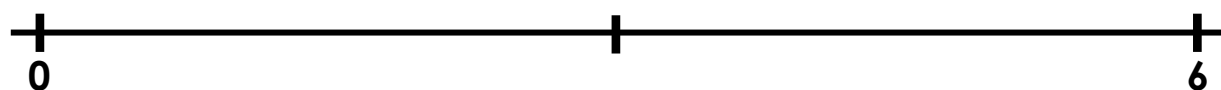
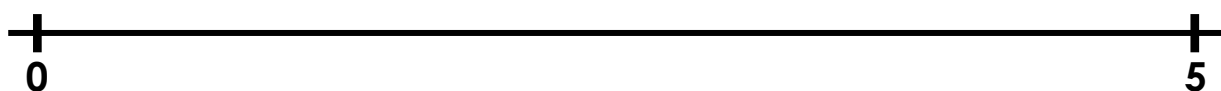
Read the Picture

Put **3** on each number line:



Read the Picture

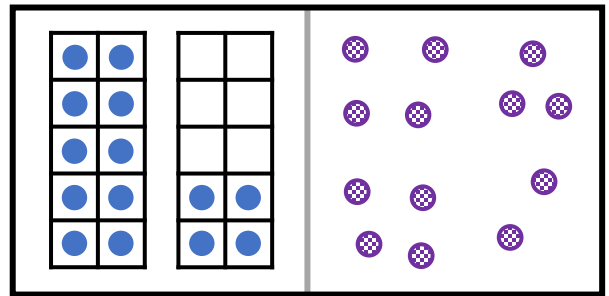
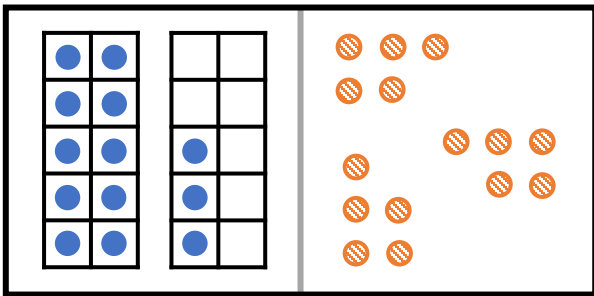
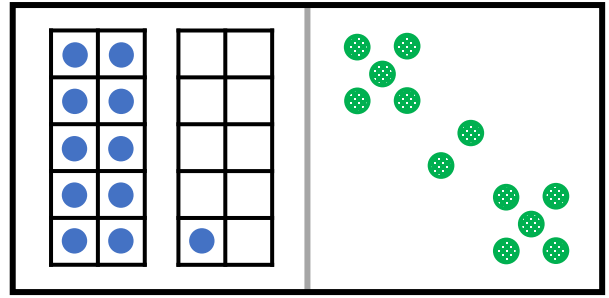
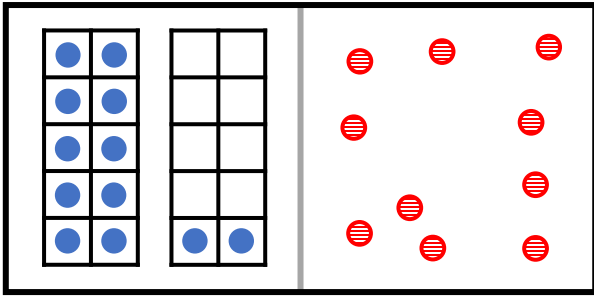
Put **4** on each number line:



Read the Pictures

Which is **more circles**?

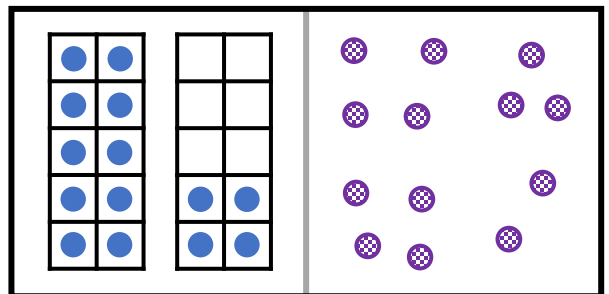
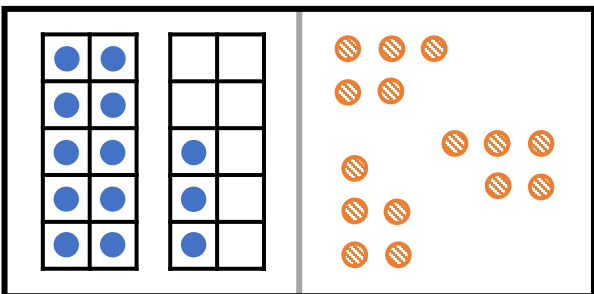
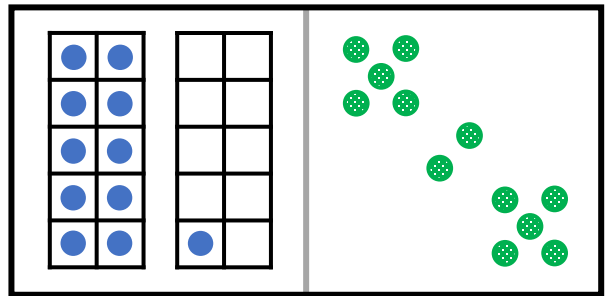
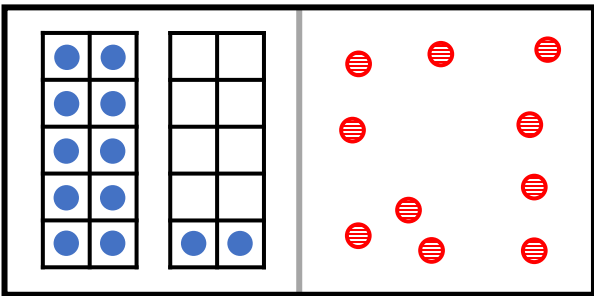
Which is **less circles**?



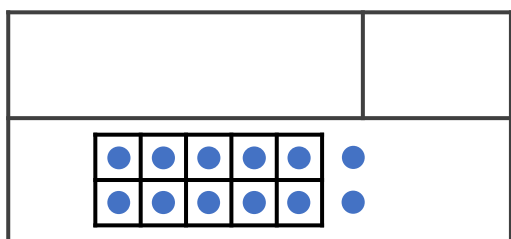
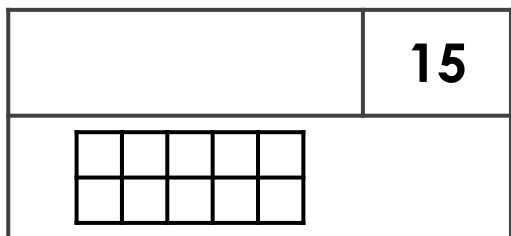
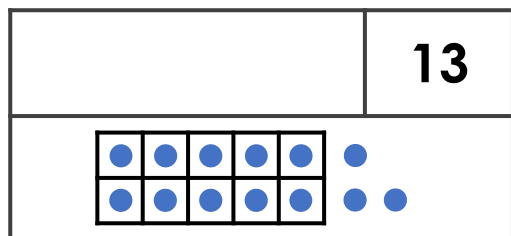
Read the Pictures

Which is **more circles**?

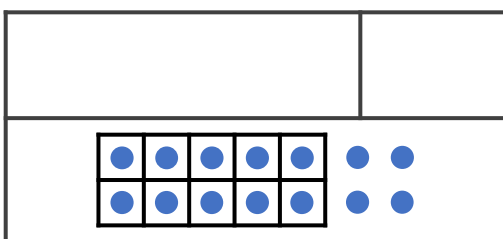
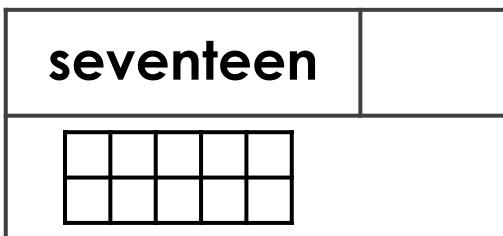
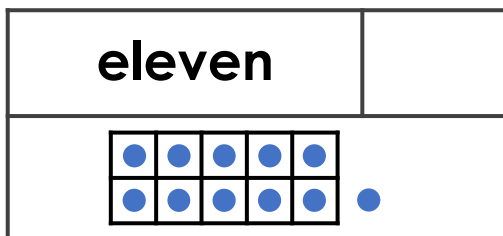
Which is **less circles**?



Different Ways

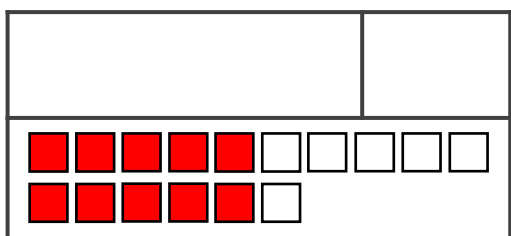
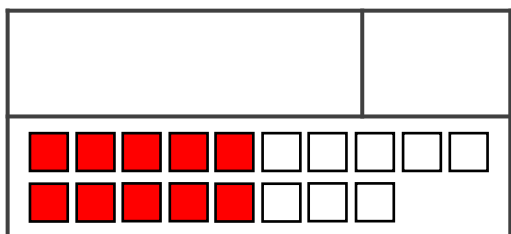
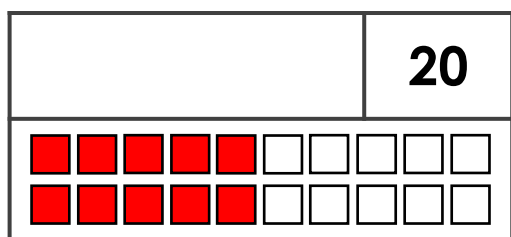


Fill the gaps.

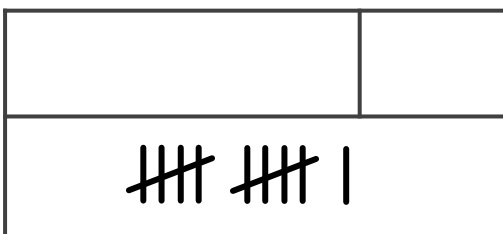
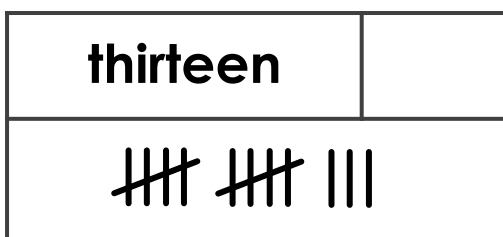


- ten
- eleven
- twelve
- thirteen
- fourteen
- fifteen
- sixteen
- seventeen
- eighteen
- nineteen
- twenty

Different Ways



Fill the gaps.



- ten
- eleven
- twelve
- thirteen
- fourteen
- fifteen
- sixteen
- seventeen
- eighteen
- nineteen
- twenty

Odd One Out

31		
		thirteen

Odd One Out

16		
		sixty

Odd One Out

12		
		twelve

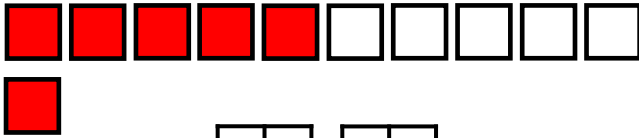
Odd One Out

15		
		fifteen

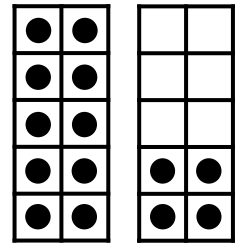
Correct or Not Correct?

✓ or ✗

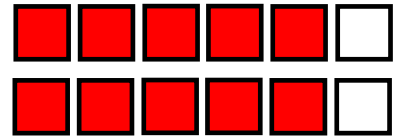
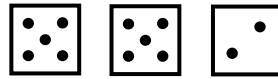
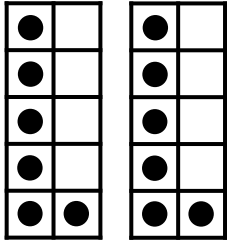
Which pictures show 12?



twelve



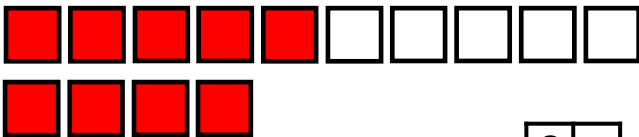
10 + 2



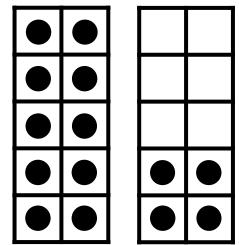
Correct or Not Correct?

✓ or ✗

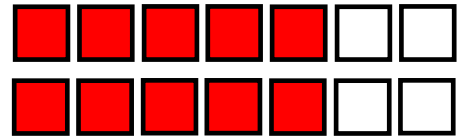
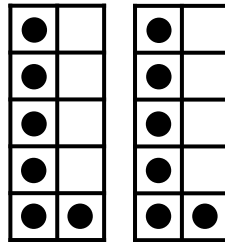
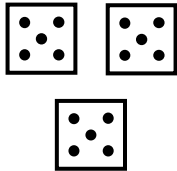
Which pictures show 14?



1 + 4

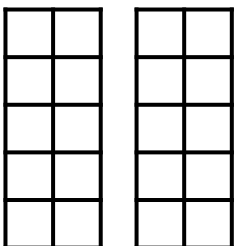
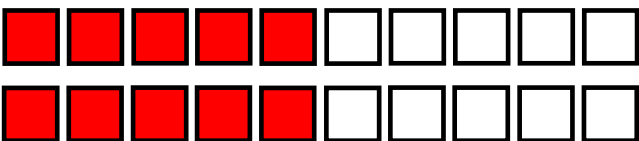


fourteen



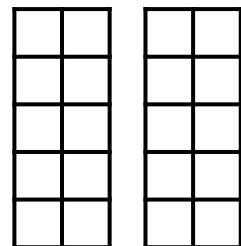
Different Ways

Show 15. Do in different ways.



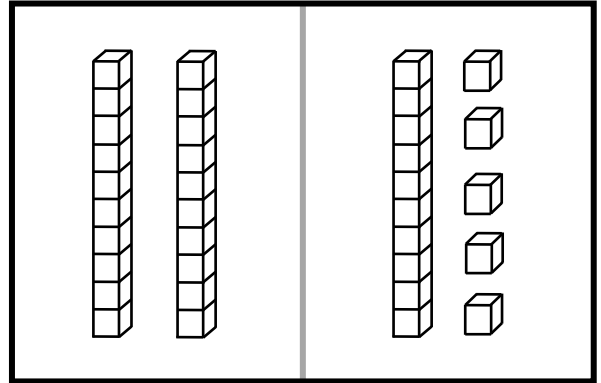
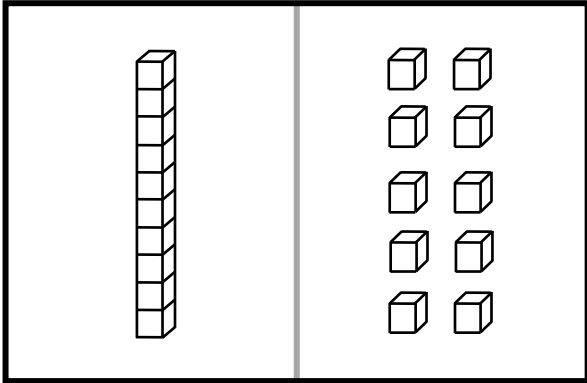
fif _____

10 +



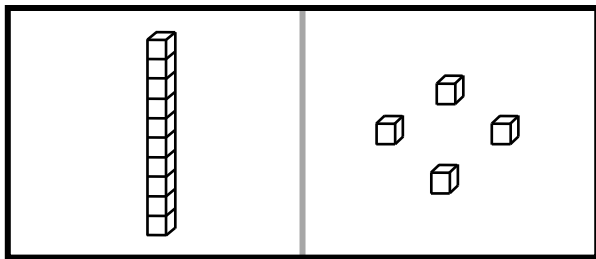
Read the Pictures

What is **the same**? What is **different**?



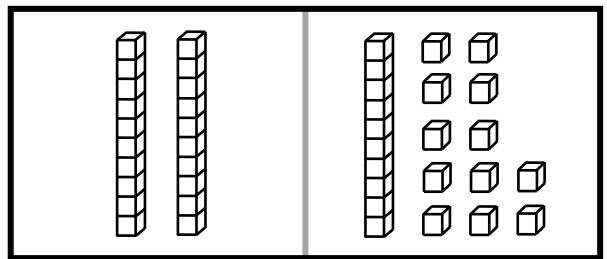
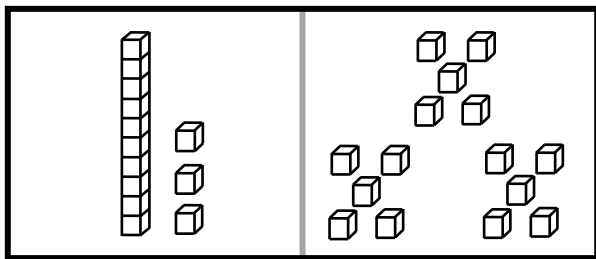
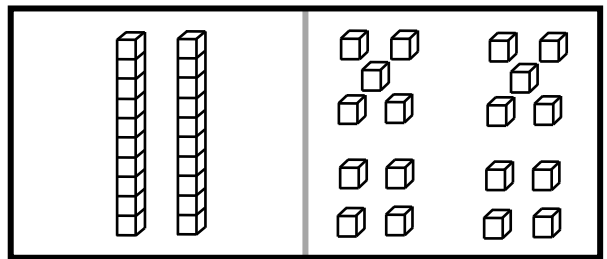
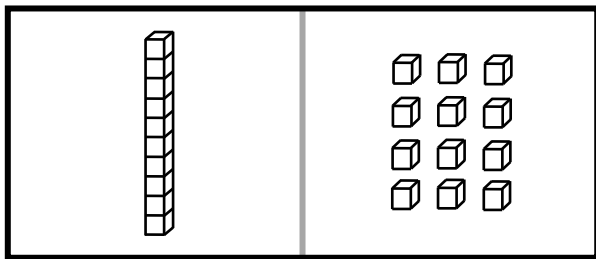
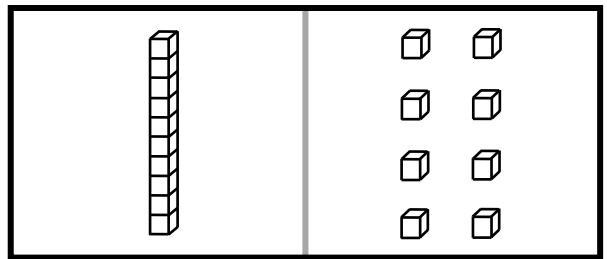
Read the Pictures

Which is **more**? Which is **less**?

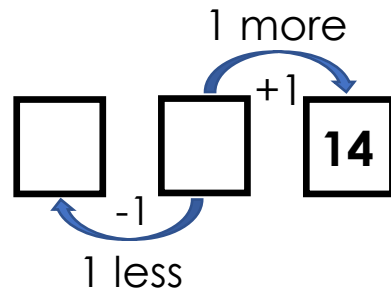
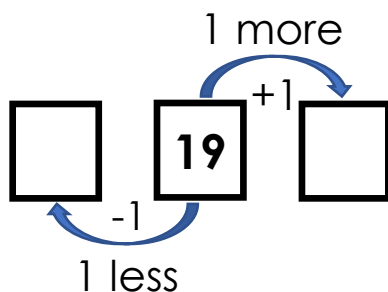
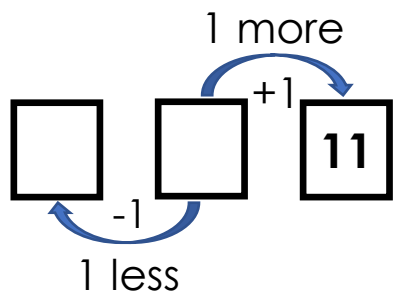
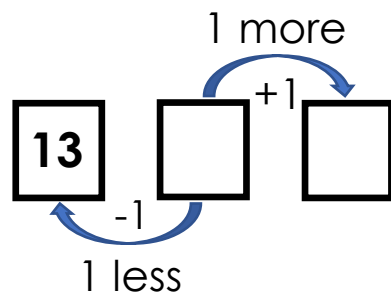
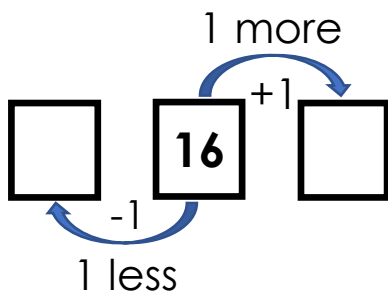
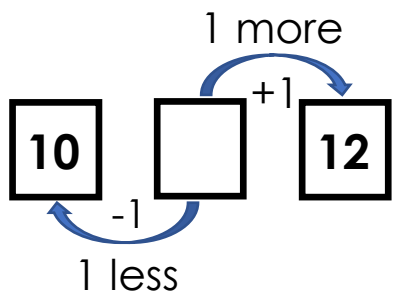


more

less



Spot the Pattern



Spot the Mistakes

11, 12, 31, 14, 15

11, 12, 13, 14, 16

20, 18, 17, 16, 15

15, 14, 13, 21, 11, 10

Spot the Patterns

Fill in the *blue boxes*.

				5			8		
11	12					17			20

1					6				10
	12	13				17			

True or False?

✓ or ✗

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

9 is less than 12

14 is more than 15

17 is 1 less than 18

1 less than 12 is 13

14 is 1 less than 15

1 more than 9 is 19

Small Difference Questions

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

12 is 1 more than

is 1 more than 19

12 is 1 less than

19 is 1 less than

is 1 more than 11

18 is 1 more than

is 1 less than 11

is 1 less than 17

Small Difference Questions

15 is 1 more than

is 1 more than 16

13 is 1 less than

17 is 1 less than

is 1 more than 13

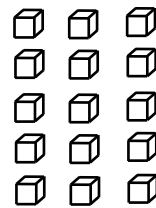
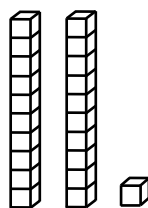
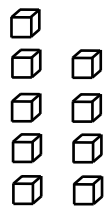
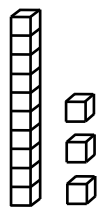
20 is 1 more than

is 1 less than 13

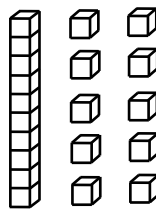
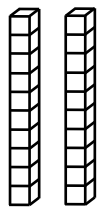
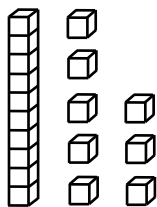
is 1 less than 19

Read the Pictures ✓ or ✗

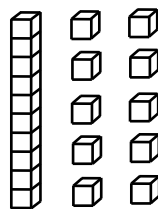
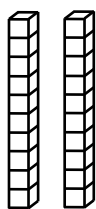
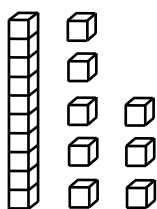
Which pictures are **more than 12 and less than 16**?



Which pictures are **1 more than 19**?



Which pictures are **1 more than 19**?



Different Answers

I think of an odd number.

My number is less than 17.

12 is less than my number.

What could my number be?

Different Answers

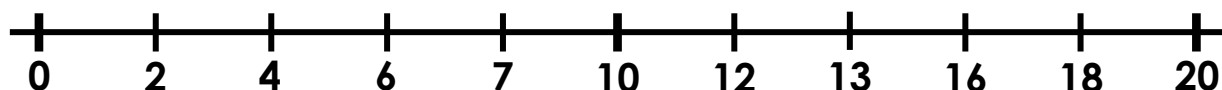
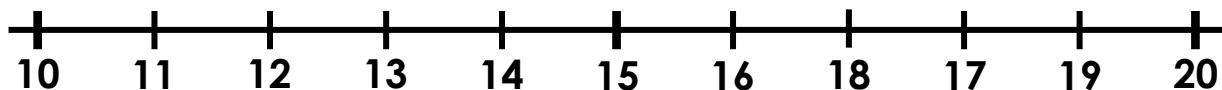
I think of a number.

My number is 10 more than an even number.

18 is more than my number.

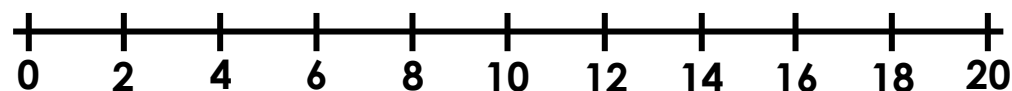
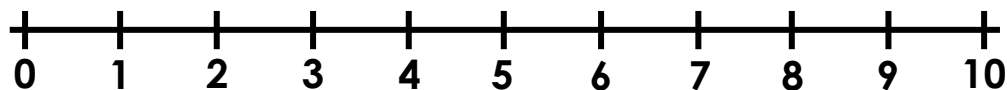
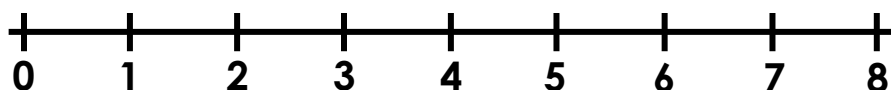
What could my number be?

Spot the Mistakes

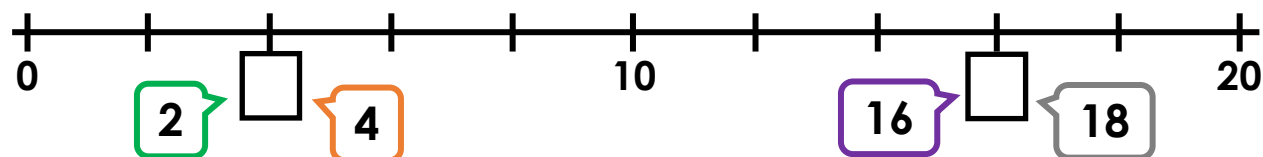
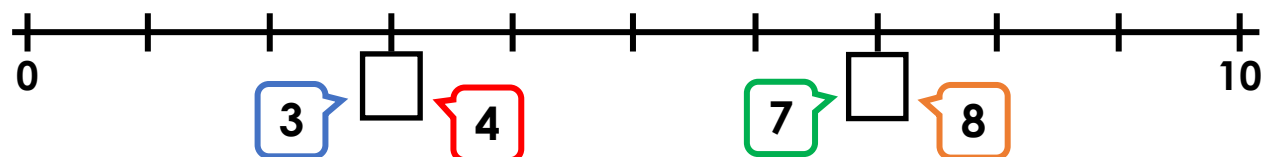


Read the Pictures

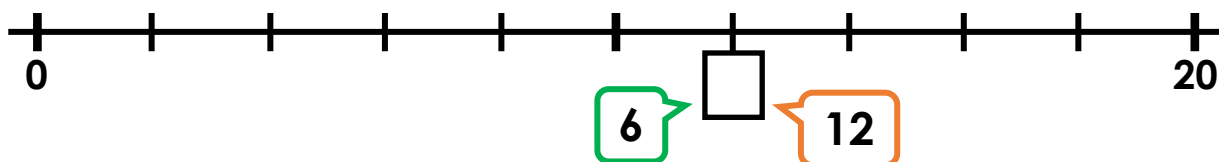
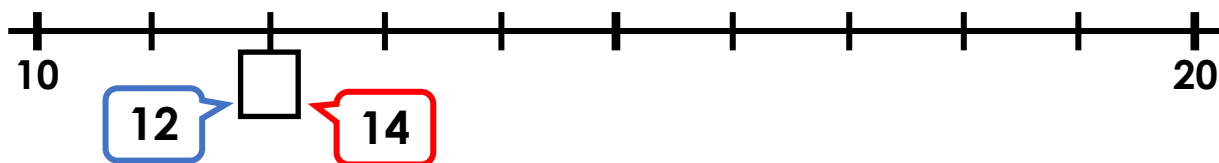
Circle the number that is **half-way**.



Which Answer?

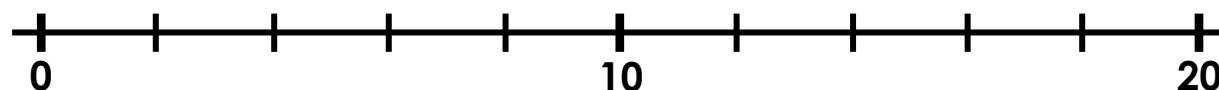
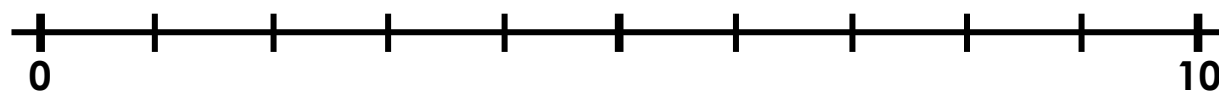
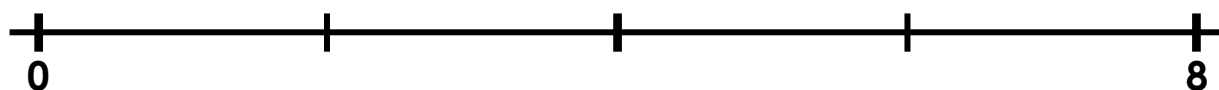


Which Answer?



Read the Picture

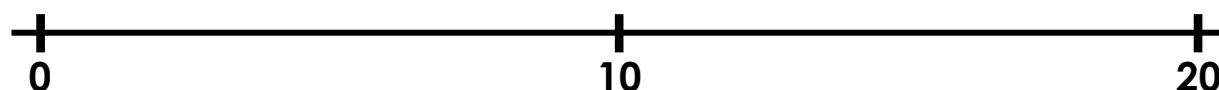
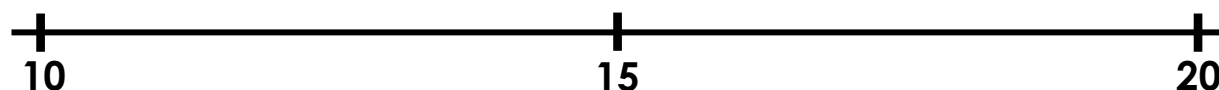
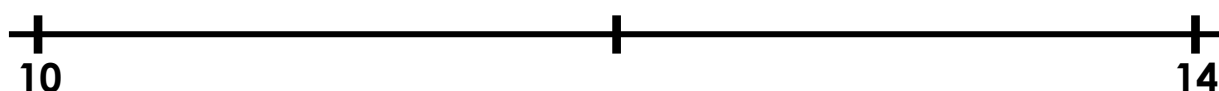
Put **4** on each number line:



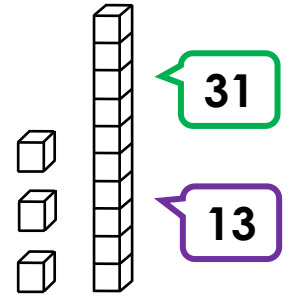
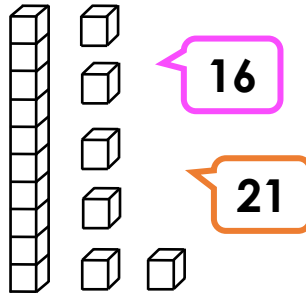
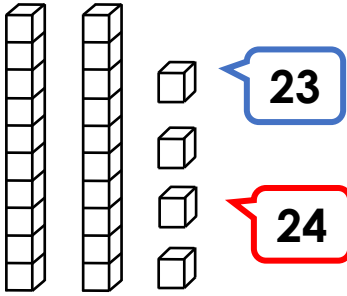
What do you notice?

Read the Picture

Put **12** on each number line:

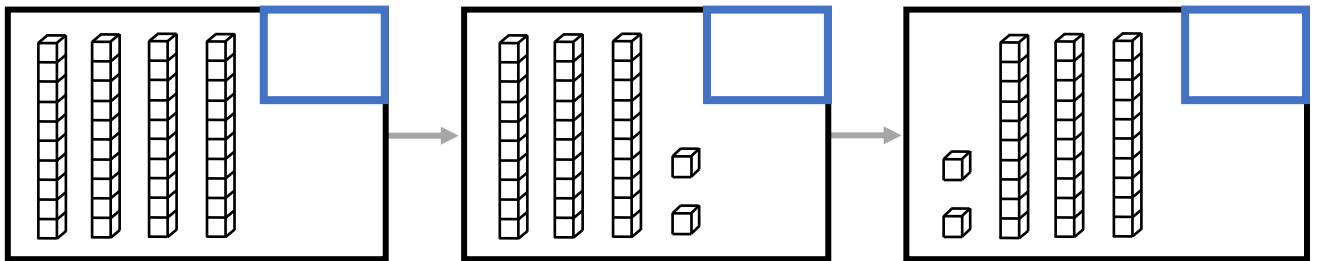
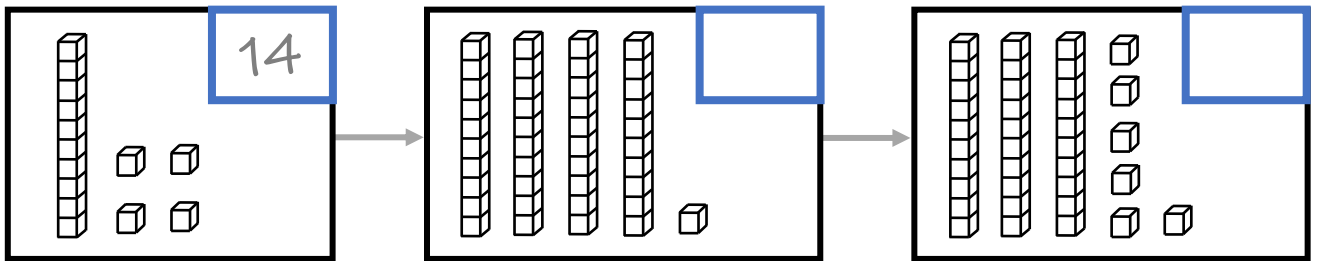


Which Answer?

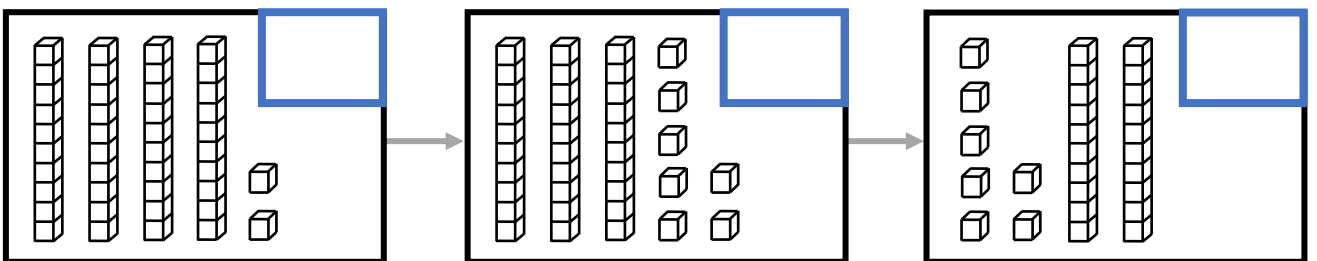
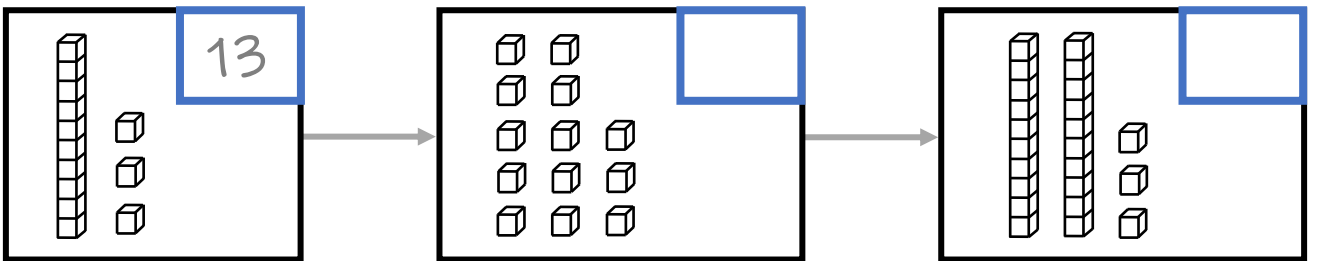


Explain the mistakes.

Read the Pictures



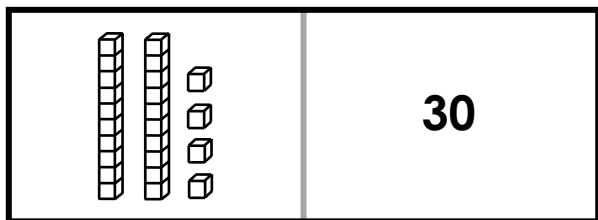
Read the Pictures



Read the Pictures

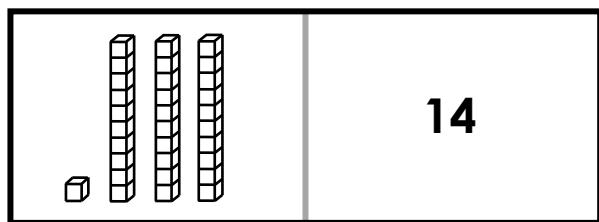
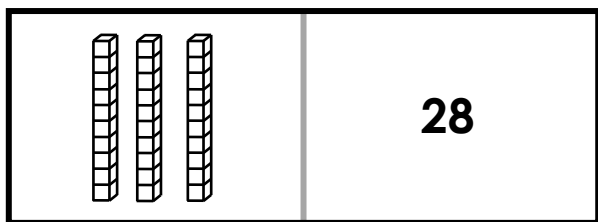
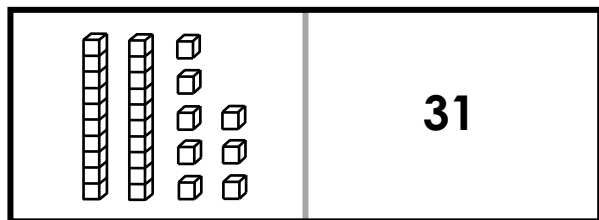
Which is **more**?

Which is **less**?



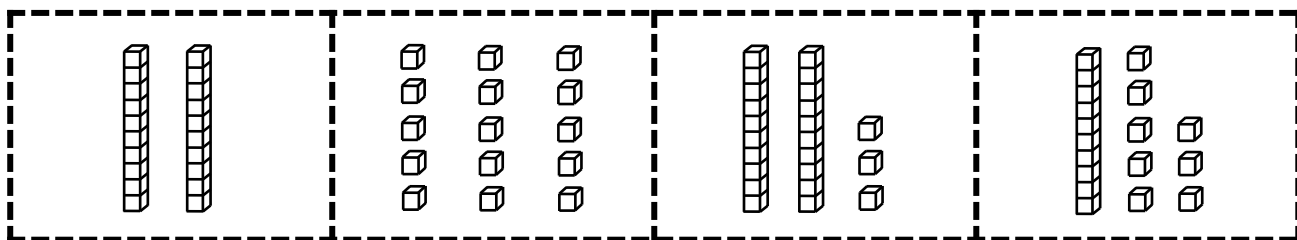
less

more



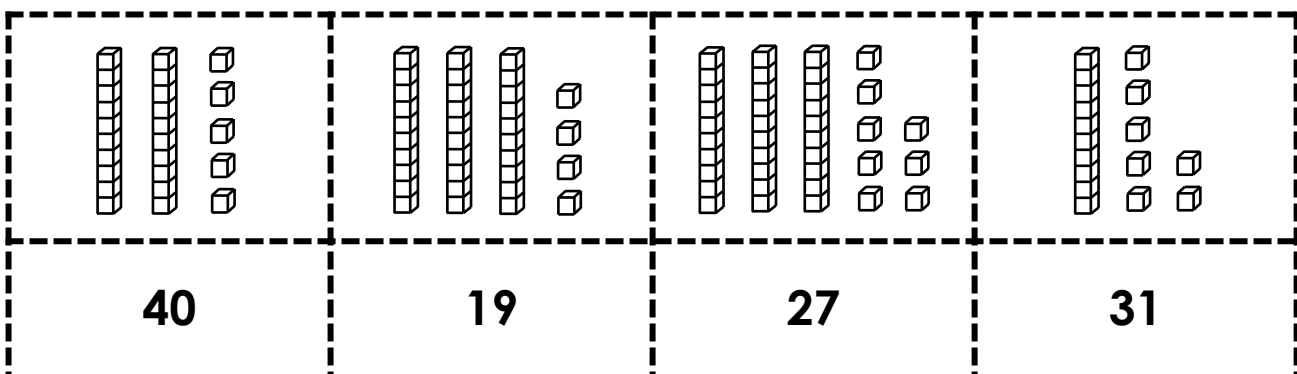
Read the Pictures

Order from **smallest to largest**.



Read the Pictures

Order the numbers/pictures from **smallest to largest**.

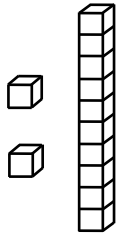


Read the Pictures

Is it 21?

Is it 12?

Is it trash?

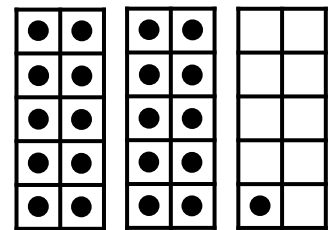
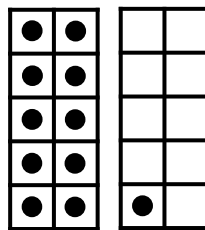
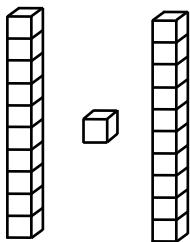
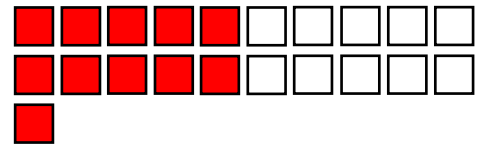


$$10 + 10 + 1$$

twenty-one

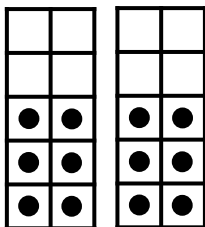
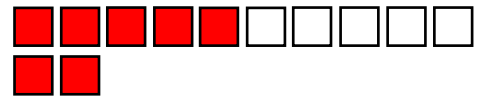
twenty

$$10 + 2$$

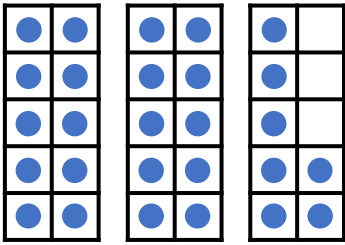


$$2 + 1$$

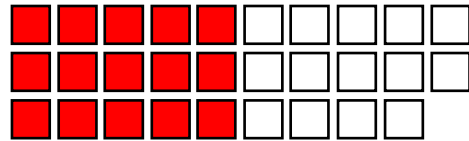
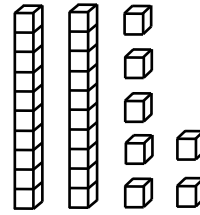
twelve



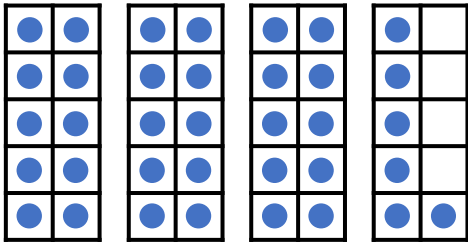
Odd One Out



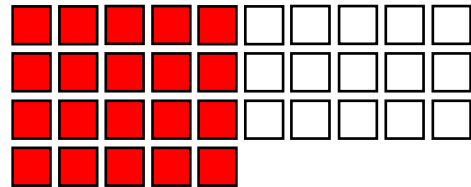
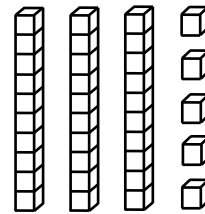
27



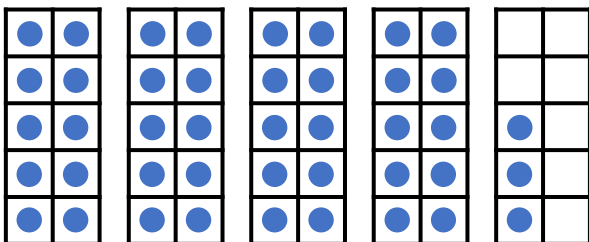
Odd One Out



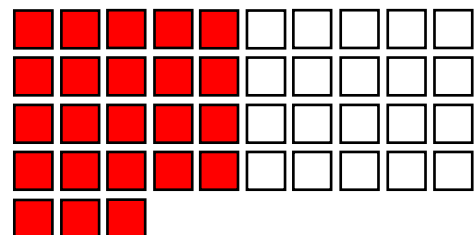
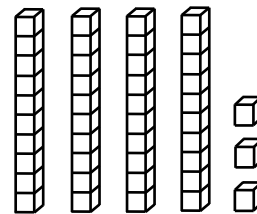
35



Odd One Out

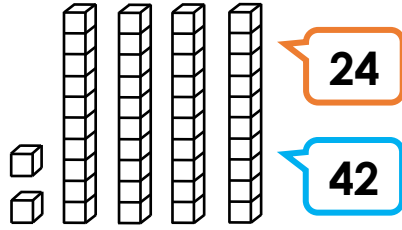


34



Which Answer?

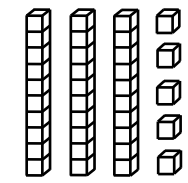
$5 + 2$
7 52



$60 + 3$
63 603

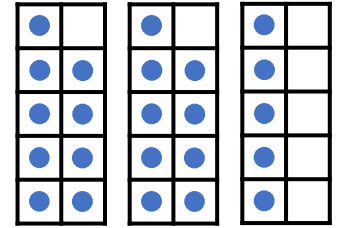
Correct or Not Correct?

✓ or x



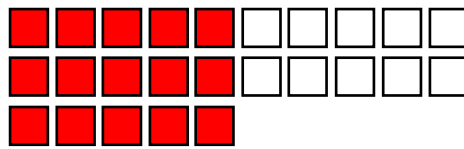
$20 + 5$

$2 + 5$

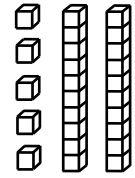


Is it 25?

$10 + 10 + 5$

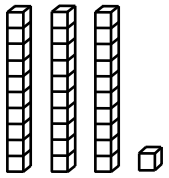


$5 + 20$



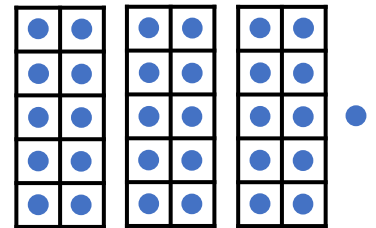
Correct or Not Correct?

✓ or x



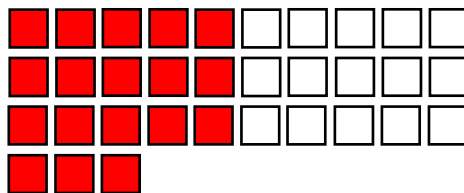
$30 + 3$

$10 + 3$

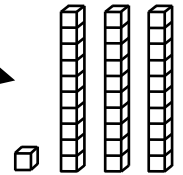


Is it 31?

$10 + 10 + 10 + 1$



$1 + 30$



Explain the Mistakes

What is 1 more than 35?

45

34

Correct answer:

What is 1 less than 27?

25

17

Correct answer:

Which Answer?

What is 1 more than 49?

50

410

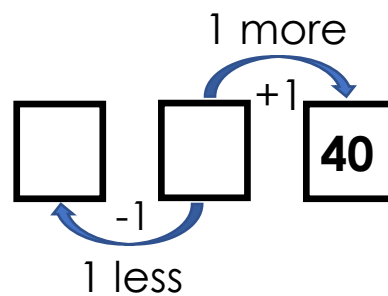
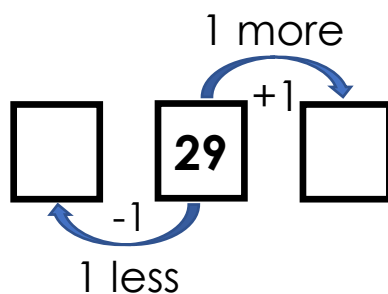
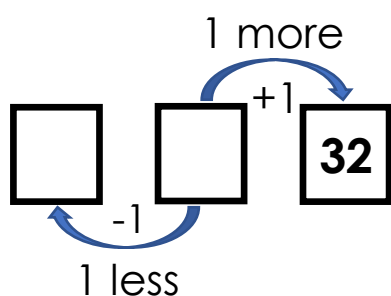
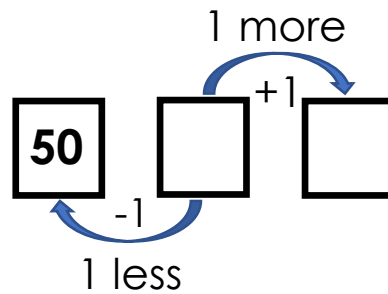
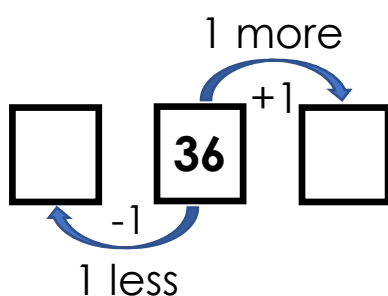
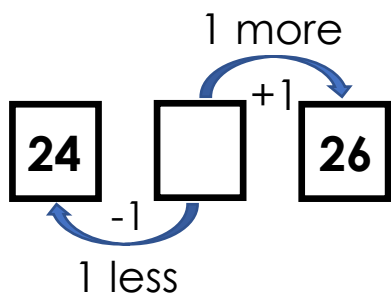
What is 1 less than 40?

30

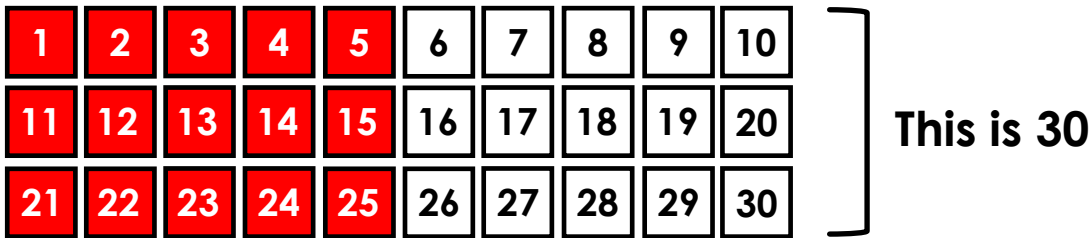
49

39

Spot the Pattern



Explain



One less than 30 is

The **tens digit** changes from 3 to

The **ones digit** changes from 0 to

Spot the Mistakes

37, 38, 39, 310

29, 30, 31, 33, 34

42, 41, 40, 30

51, 25, 53, 54

32, 31, 30, 39

Fill the Gaps

15 17 18 19

18 19 22 23

14 13 12

21 20 18 17

Fill the Gaps

16		18	19		21
----	--	----	----	--	----

		26	27	28			31
--	--	----	----	----	--	--	----

22	21	20			17
----	----	----	--	--	----

		32	31			28	27
--	--	----	----	--	--	----	----

Fill the Gaps

26	27		29		
----	----	--	----	--	--

		46			49	50	
--	--	----	--	--	----	----	--

31	30			27	26
----	----	--	--	----	----

Fill the Gaps

	38	39			42
--	----	----	--	--	----

		50			53	54
--	--	----	--	--	----	----

	72	71	70		
--	----	----	----	--	--

Spot the Patterns

Fill in the **blue boxes**.

1	2	3			6	7			10
11	12			15	16	17	18	19	20
21		23	24	25			28	29	30
31	32	33			36	37	38	39	

Spot the Patterns

Fill in the **blue boxes**.

1	2	3	4				8	9	10
11	12	13			16	17			20
21	22		24	25				29	
31		33	34	35		37	38	39	40
	42	43		45		47		49	50

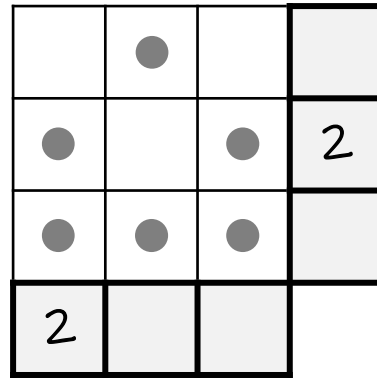
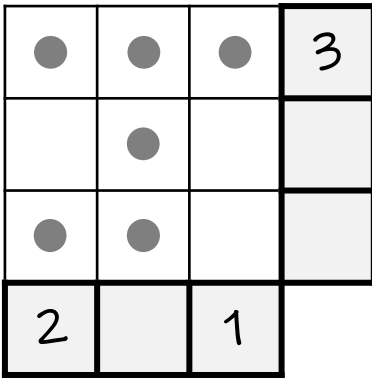
Spot the Patterns

Fill in **only** the **blue boxes**.

1					6	7	8		
	12	13	14					19	
21			24	25	26				30
31	32					37	38	39	40
41			44	45	46				50

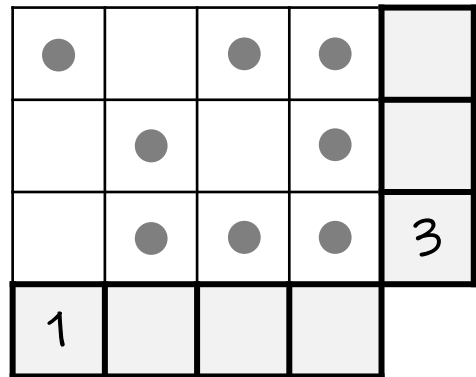
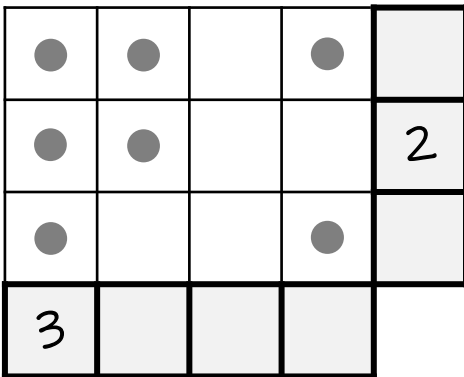
Read the Pictures

Fill the gaps:



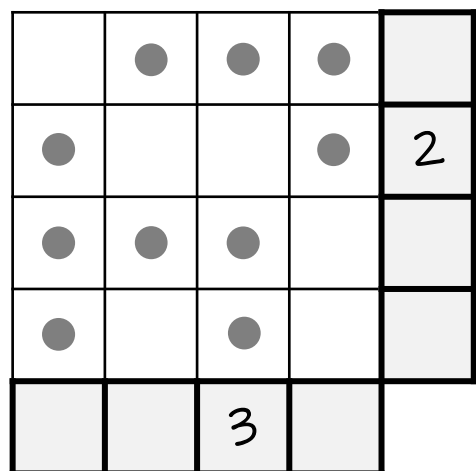
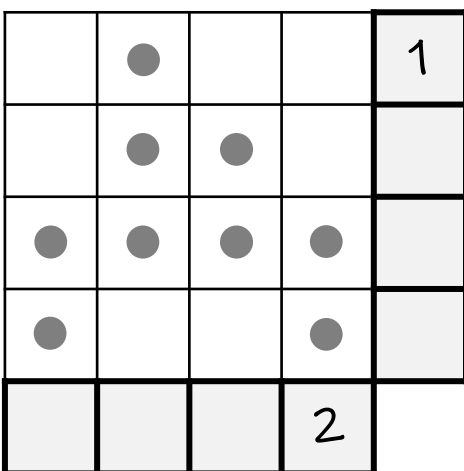
Read the Pictures

Fill the gaps:



Read the Pictures

Fill the gaps:



Read the Pictures

Draw the missing dot:

		●	1
●	●	●	3
●			2
2	2	2	

	●		2
●			1
	●	●	2
2	2	1	

Read the Pictures

Draw the missing dots:

	●			2
●		●		2
●		●		3
2	1	3	1	

	●			2
●				2
●				1
●		●	●	2
4	1	1	2	

Spot the Mistake

●		●	●	3
●	●			2
	●	●	●	3
1	3	2	2	

Which counter is in the wrong place?

Where should it be?

Different Ways

Complete using counters. *There are two answers.*

			1
			3
			1
2	2	1	

Drawings of answers:

			1
			3
			1
2	2	1	

			1
			3
			1
2	2	1	

How many counters in total?

Different Ways

Complete using counters. *Do in different ways.*

				2
				1
				3
				3
3	1	3	2	

Drawings of answers:

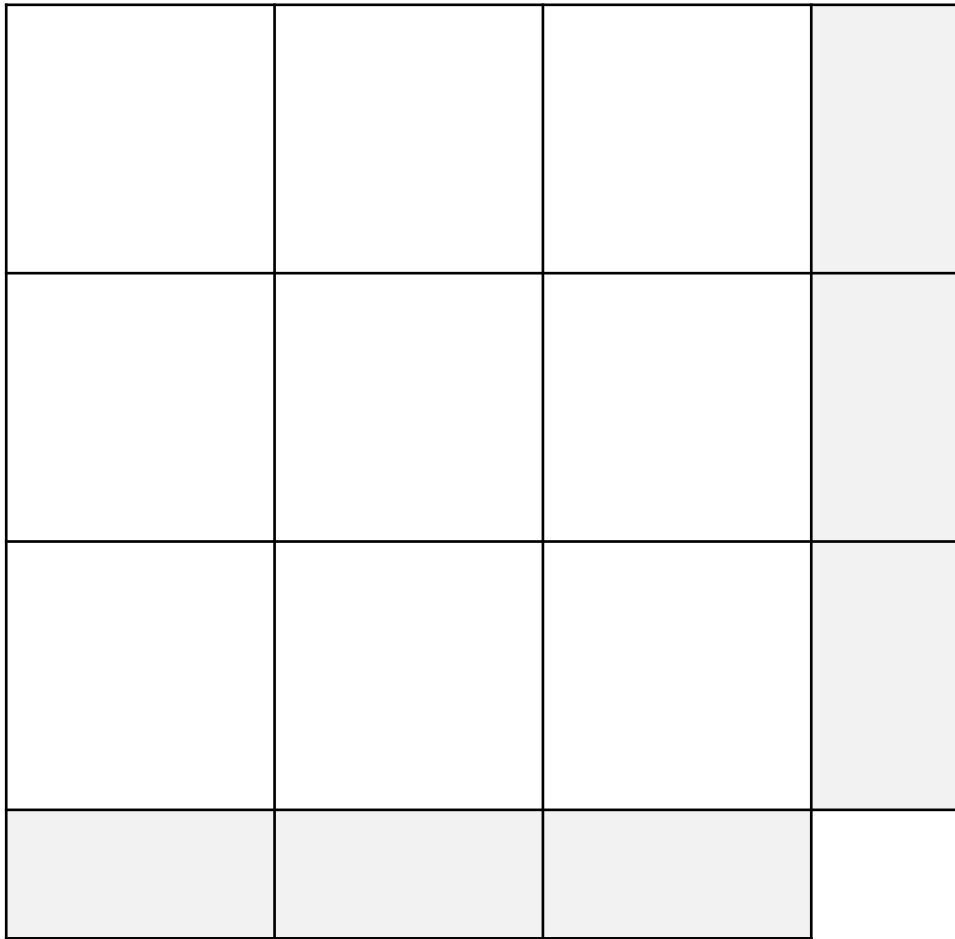
				2
				1
				3
				3
3	1	3	2	

				2
				1
				3
				3
3	1	3	2	

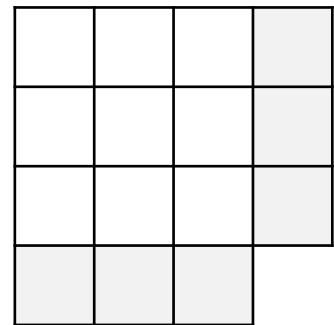
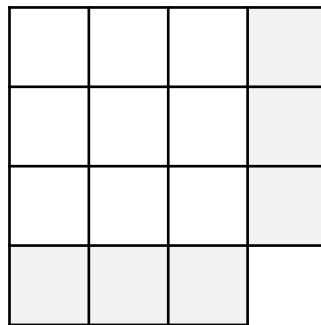
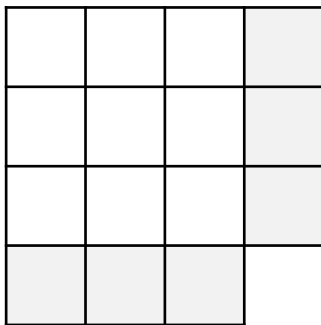
				2
				1
				3
				3
3	1	3	2	

Explore

Make a question:



Drawings of answers:



Explore

Make a question:

Drawings of answers:

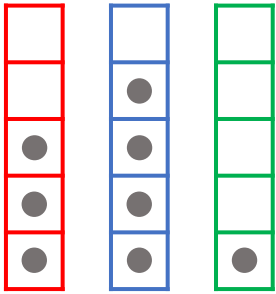
5-Frames for Problem-Solving

red

blue

green

Explain

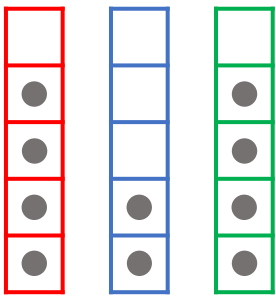


In total, there are dots in the 5-frames.

There are more dots in the than the .

There are fewer dots in the than the .

Explain



In total, there are dots in the 5-frames.

There are the same number of dots in .

There are fewer dots in the than the .

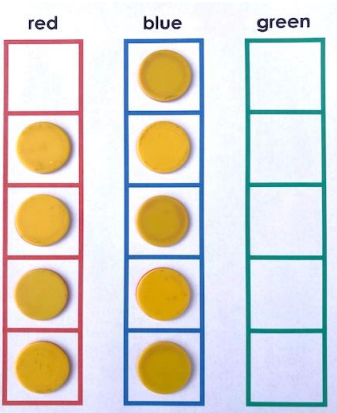
Explain the Mistakes

Put **9 counters** in the 5-frames.

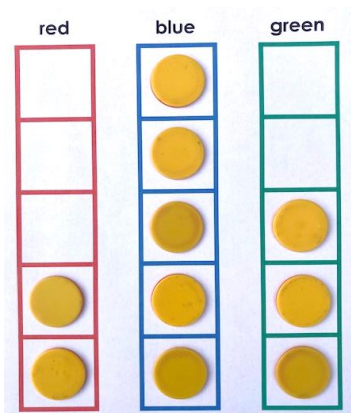
Put **fewer counters** in the **red 5-frame** than the **blue 5-frame**.

Put **at least 1 counter** in each 5-frame.

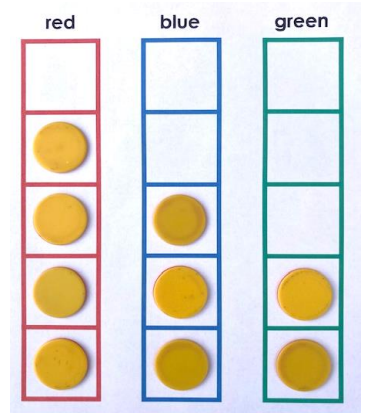
Mistake A:



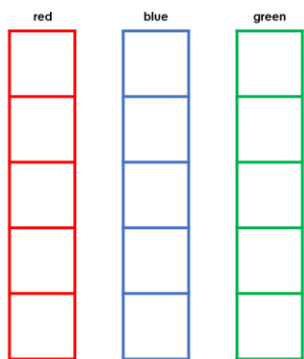
Mistake B:



Mistake C:



Different Ways

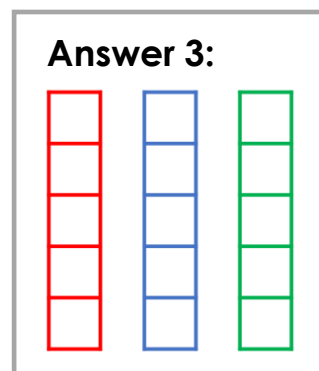
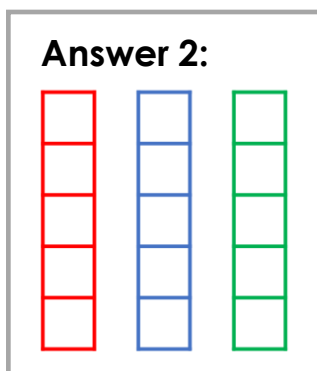
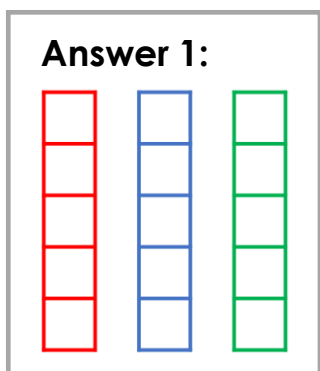


← You need counters and these 5-frames.

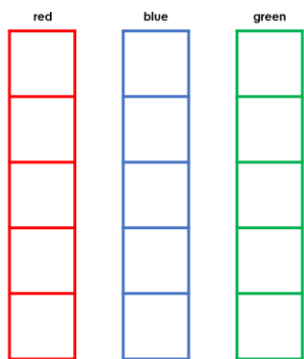
Put **8 counters** in the 5-frames.

Put **the same** number of counters in the **blue** and the **green** 5-frames.

There are different answers!



Different Ways

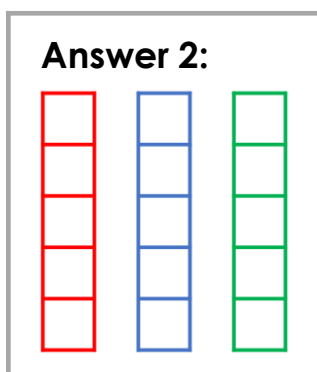
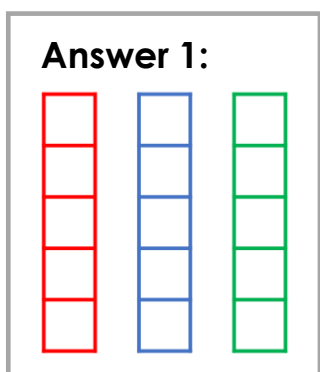


← You need counters and these 5-frames.

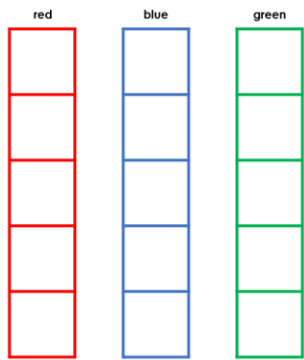
Put **10 counters** in the 5-frames.

Put **more** counters in the **red** 5-frame than the **blue** 5-frame.

Put **less than 3** counters in the **green** 5-frame.



Different Ways

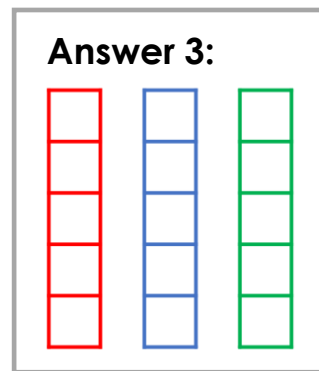
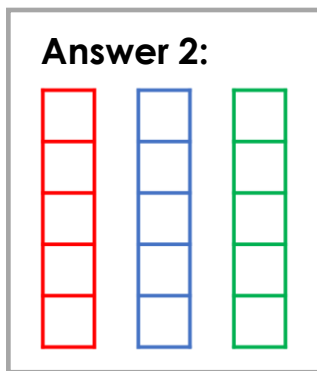
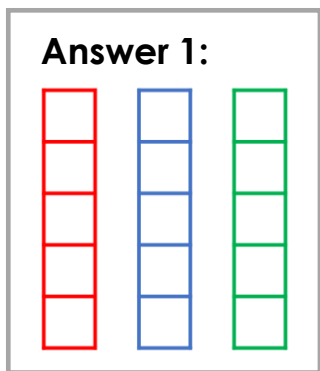


You need counters and these 5-frames.

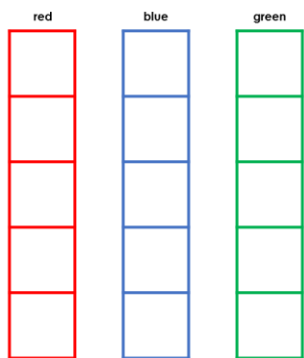
Put **9 counters** in the 5-frames.

Put **the same** number of counters in the **red** and the **green** 5-frames.

There are different answers!



Different Ways

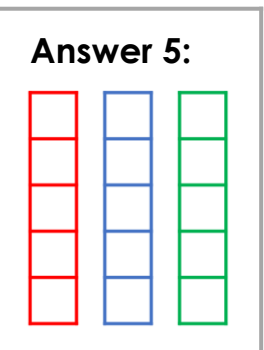
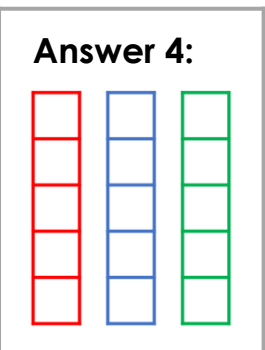
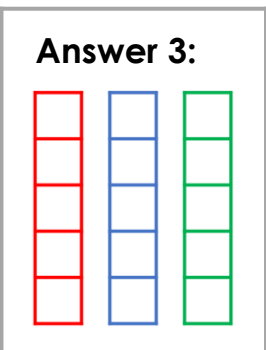
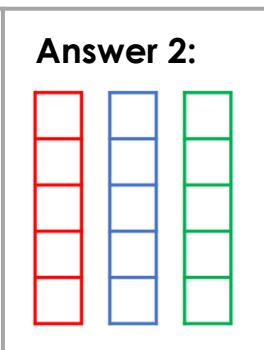
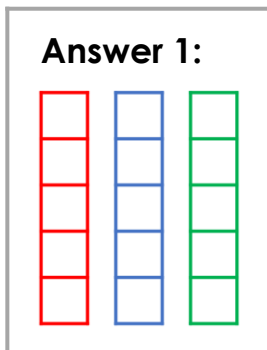


You need counters and these 5-frames.

Put **8 counters** in the 5-frames.

The **green** 5-frame has the **fewest** counters. It is not empty.

There are five answers!

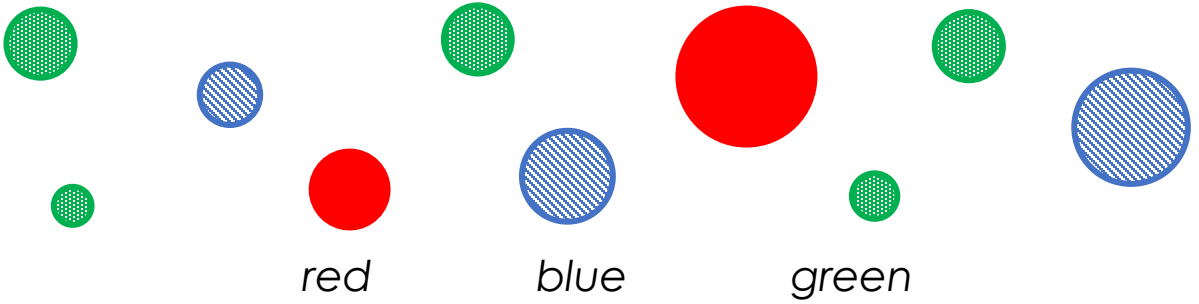


Read the Picture

There are more **blue** circles than _____ circles.

There are less _____ circles than _____ circles.

There are more _____ than _____

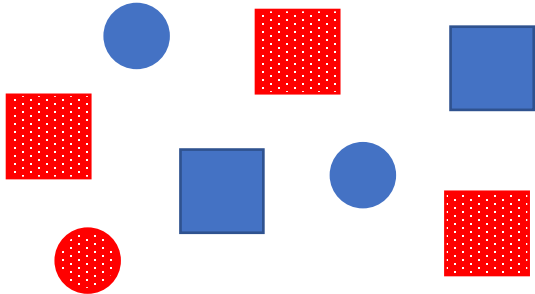


red

blue

green

Read the Picture



red

blue

circle

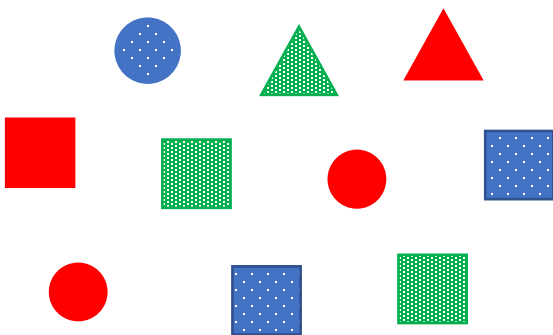
There are 3 _____

There are 4 _____

There are 5 _____

square

Read the Picture



red

blue

green

circle

square

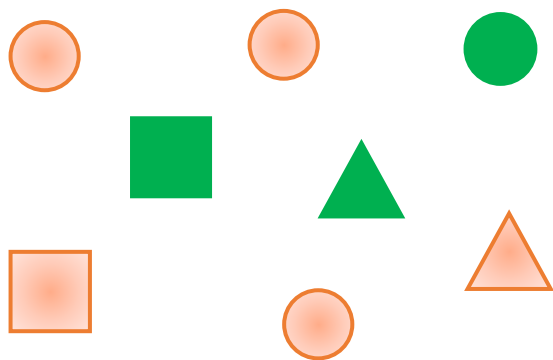
triangle

There are 3 _____

There are 4 _____

There are 5 _____

Read the Picture



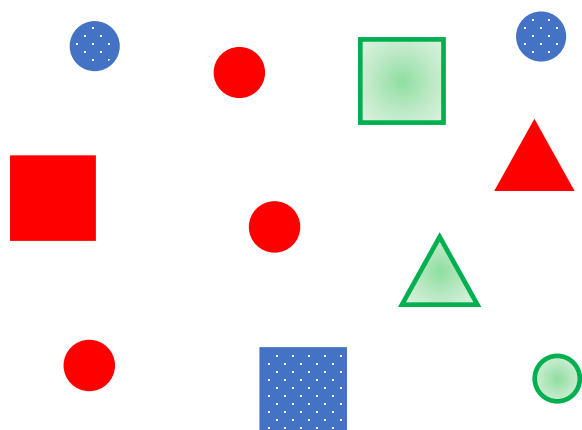
There are shapes

There are green shapes

There are squares

There are circles

Agree or Disagree?



✓ or ✗

more circles than squares

11 shapes

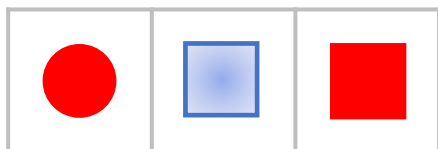
More red circles than green shapes

Read the Pictures

shapes in total

red shapes

squares



shapes in total

blue shapes

squares



Explore

4 shapes in total.
 2 blue shapes.
 3 circles.











Extend: find
 different answers!

--	--	--	--

4 shapes in total.
 1 red shape.
 2 squares.

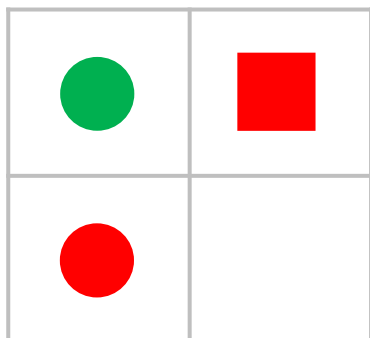
Extend: find
 different answers!

--	--	--	--

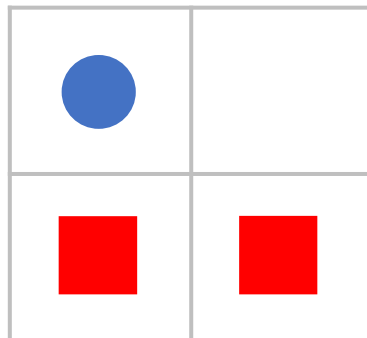
				
				

Finish the Pictures

4 shapes in total.
2 green shapes.
3 circles.



4 shapes in total.
3 red shapes.
2 circles.



Finish the Pictures

3 shapes in total.
1 red shape.
2 circles.

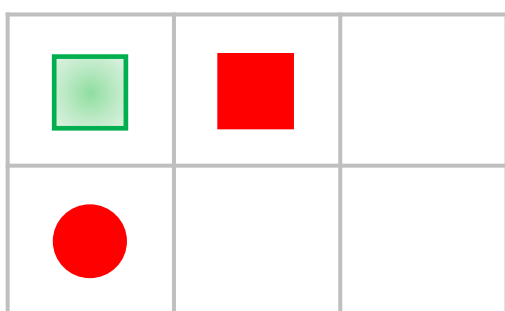


3 shapes in total.
2 blue shapes.
1 square.



Finish the Pictures

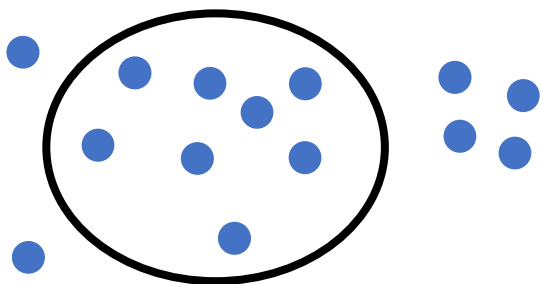
6 shapes in total.
4 red shapes.
3 circles.



6 shapes in total.
4 blue shapes.
1 square.



Which Answer?



How many dots circled?

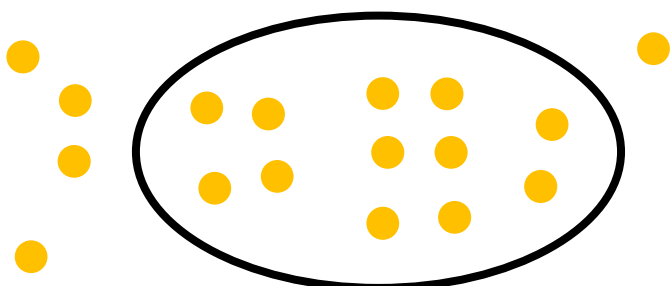
Less than 7

7 to 10

More than 10

No counting! Explain how you know.

Which Answer?



How many dots circled?

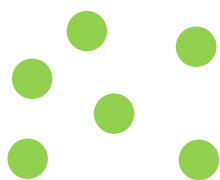
Less than 7

7 to 10

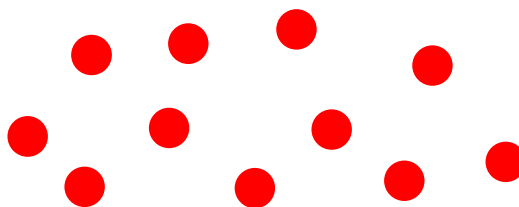
More than 10

No counting! Explain how you know.

Estimate

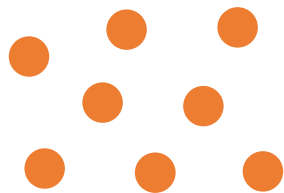


6 green dots.

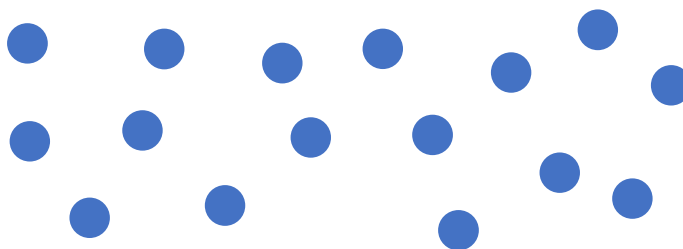


Estimate how many red dots.

Estimate



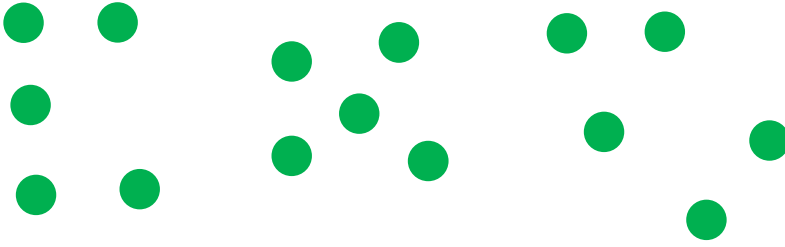
8 orange dots.



Estimate how many blue dots.

Estimate

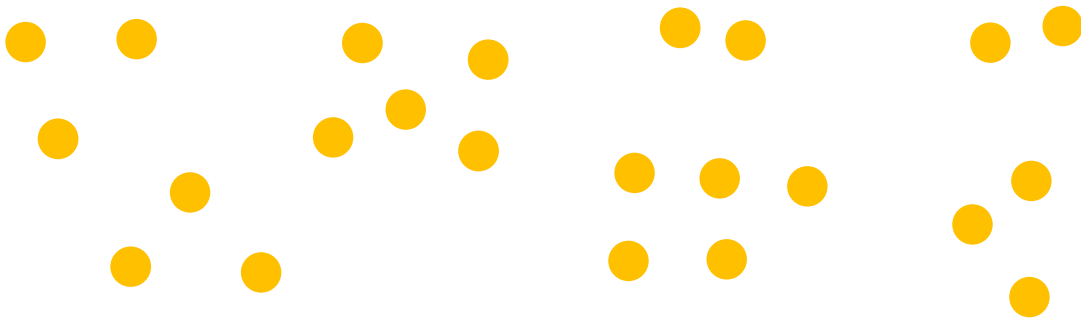
Circle more than 6 and less than 10 without counting.



How do you know?

Estimate

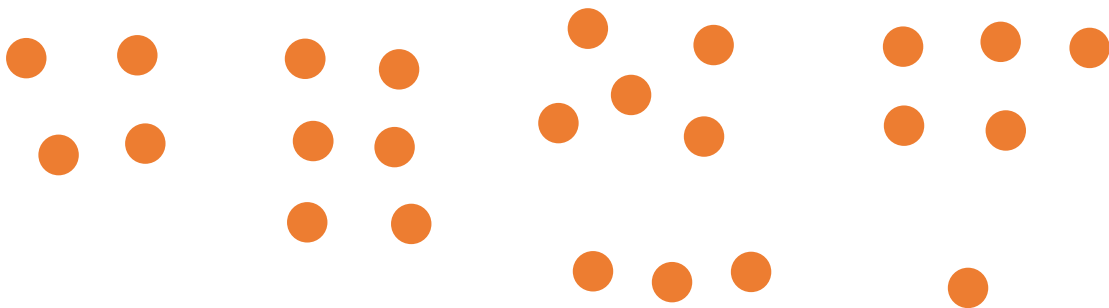
Circle more than 8 and less than 16 without counting.



How do you know?

Estimate

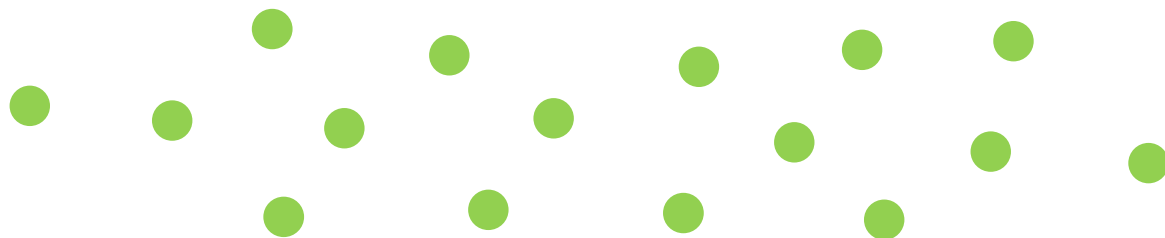
Circle more than 12 and less than 20 without counting.



How do you know?

Estimate

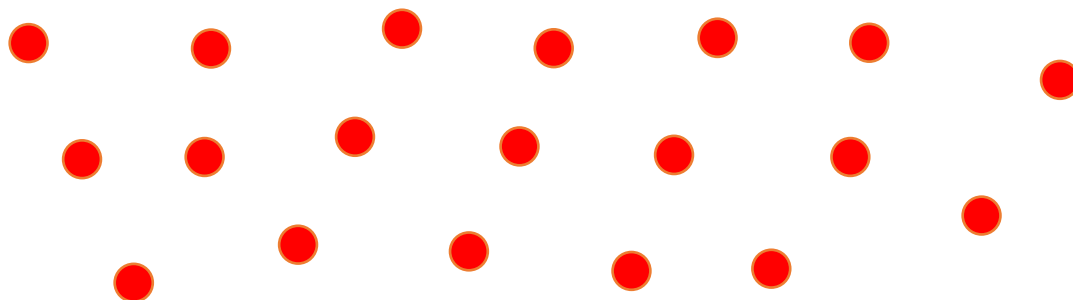
Circle more than 6 and less than 12 without counting.



Count to check.

Estimate

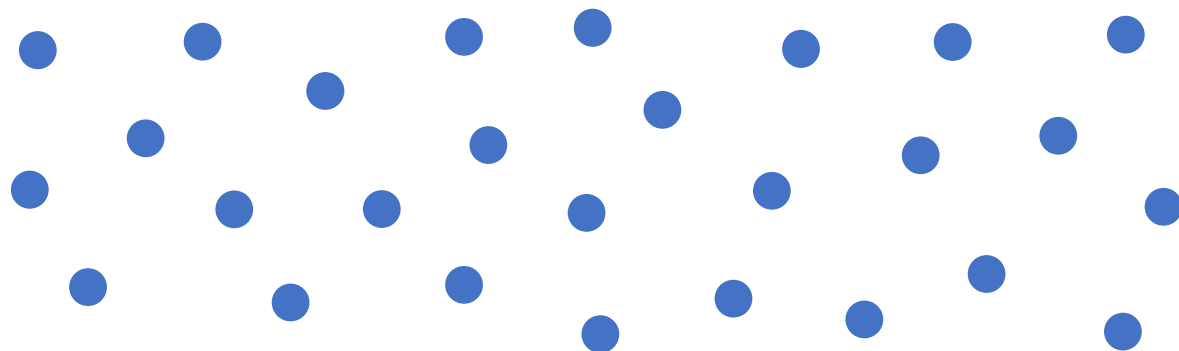
Circle more than 8 and less than 16 without counting.



Count to check.

Estimate

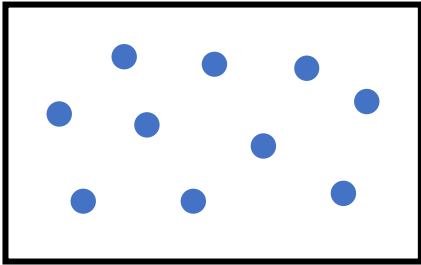
Circle more than 10 and less than 20 without counting.



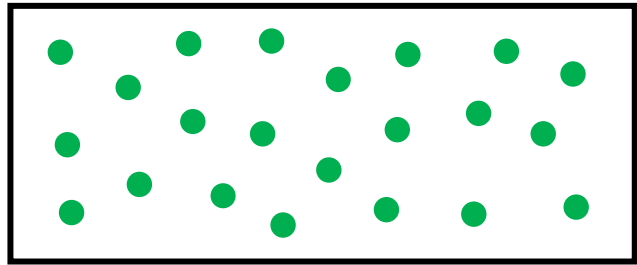
Count to check.

Agree or Disagree?

Estimate the number of green dots. **No counting!**



This is 10



✓ or ✗

Lots more green than blue

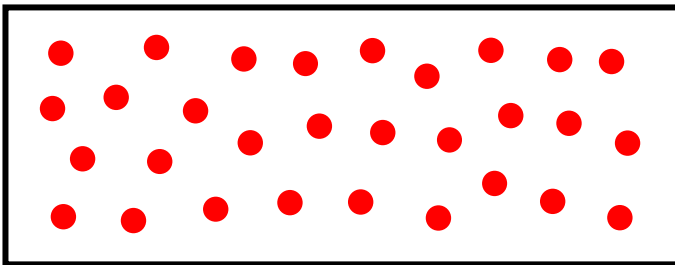
About 6 more green dots

About 40 green dots

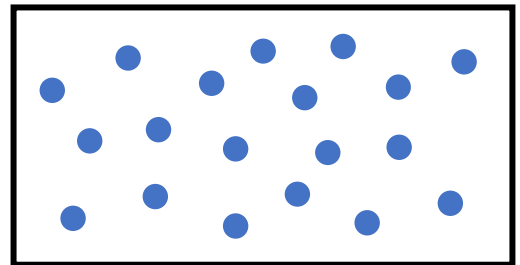
Green about double blue

Read the Pictures

Estimate the number of blue dots. **No counting!**



This is 30



✓ or ✗

About 4 less blue than red

About 10 less blue than red

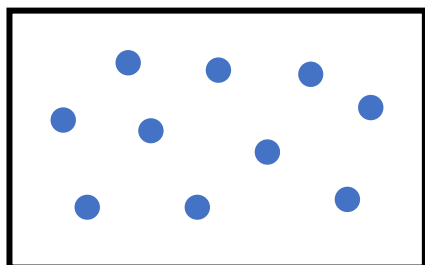
About 20 less blue than red

Estimate

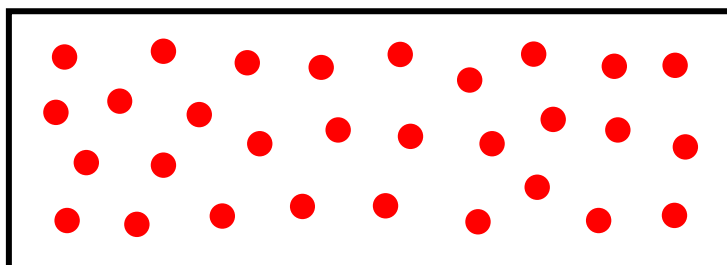
Choose an answer. **No counting!**
Then, **count to check.**

It is more than...

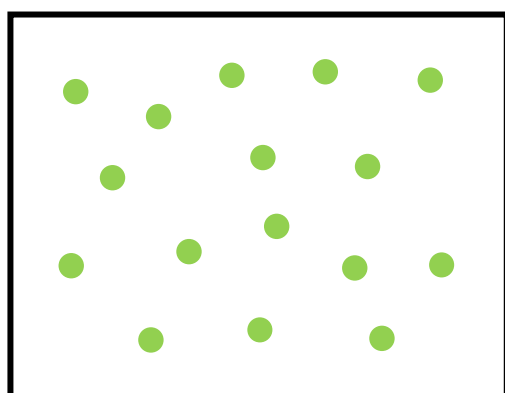
It is less than...



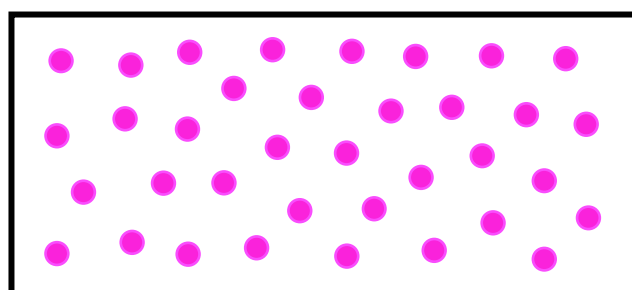
This is 10



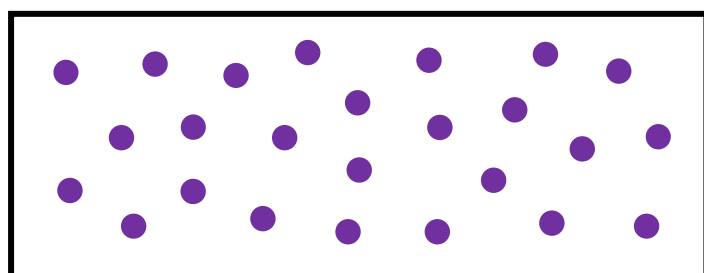
This is 30



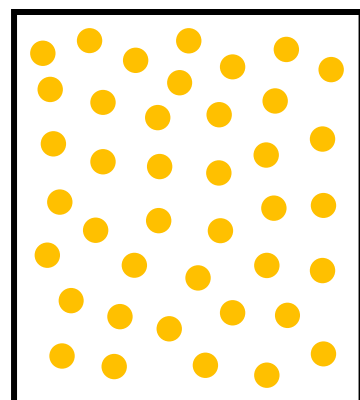
16 OR 25



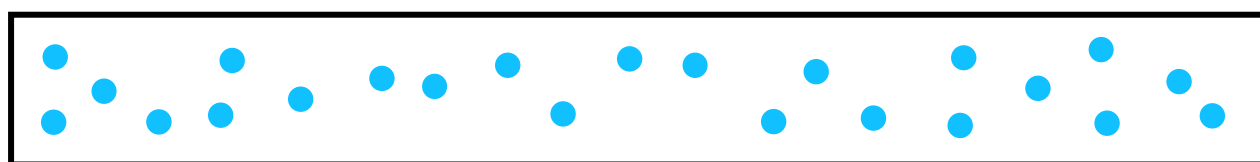
35 OR 55



15 OR 25



26 OR 40



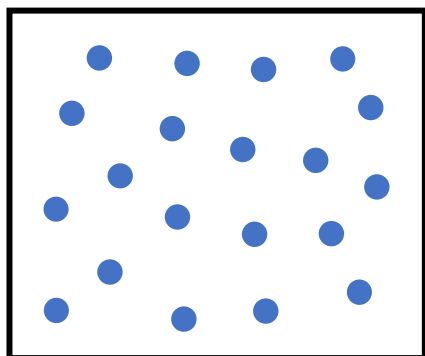
23 OR 35

Estimate

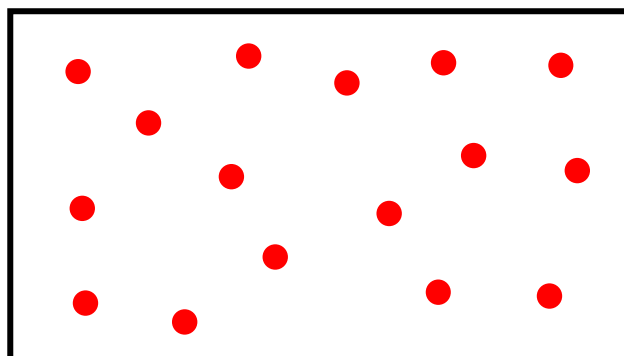
Choose an answer. **No counting!**
Then, **count to check.**

It is more than...

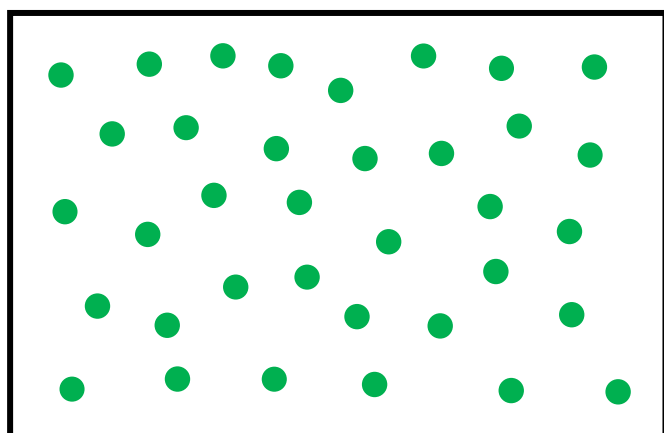
It is less than...



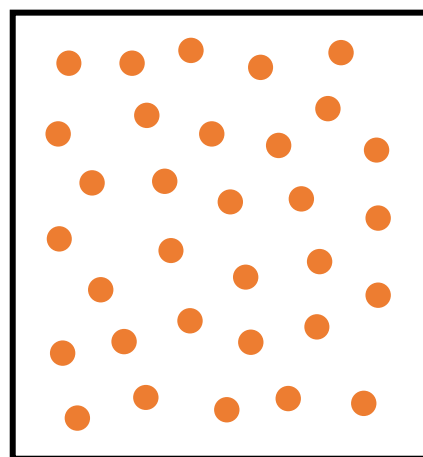
This is 20



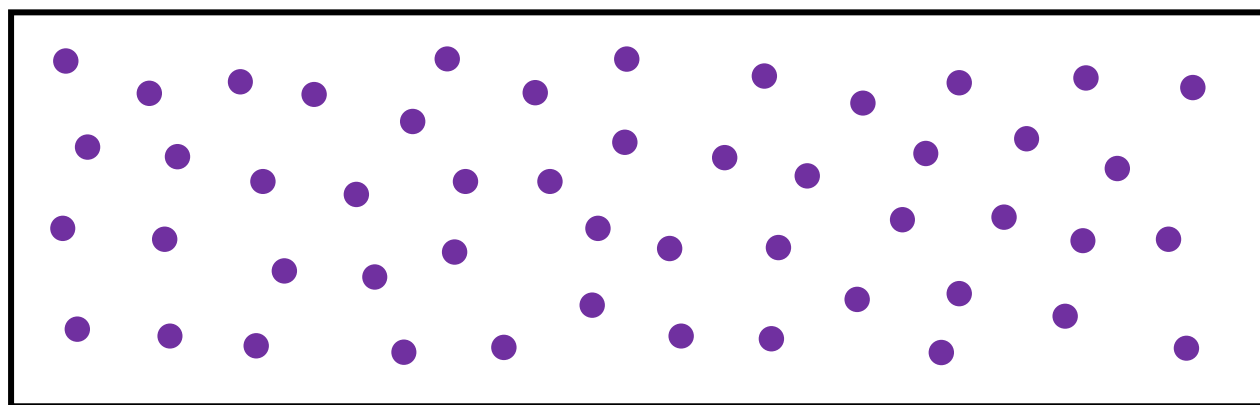
16 OR 26



23 OR 36



32 OR 48



50 OR 90