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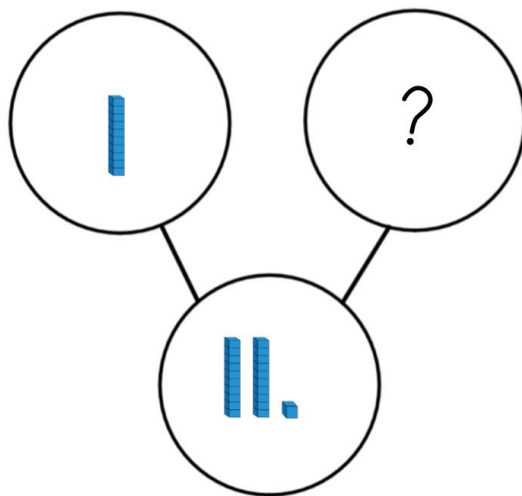
Kind Regards,
Michael Plews
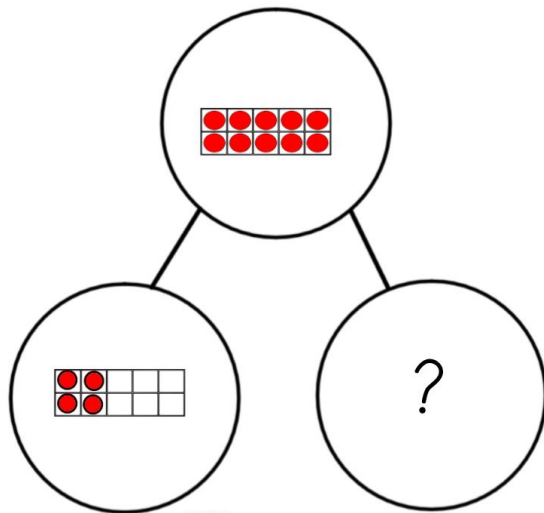
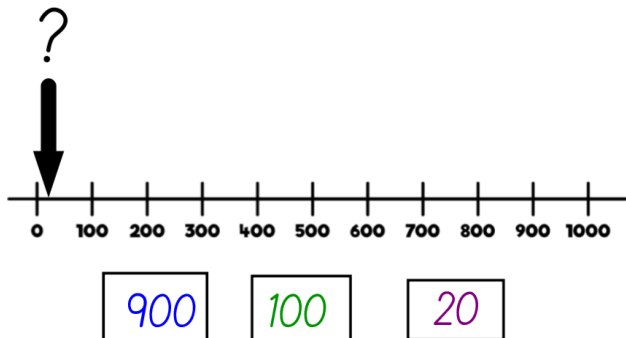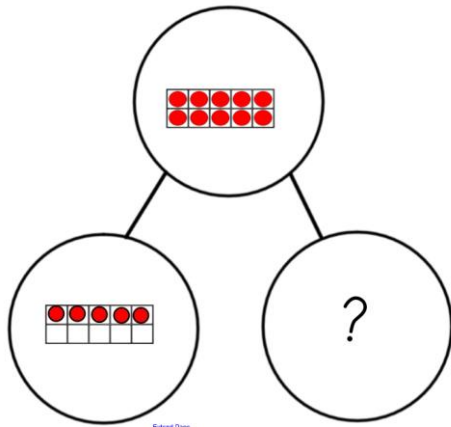|	
Choice A 	**Choice A** <u>Missing Number: 6.</u> NUMBER BONDS TO 10.
Choice B 	**Choice B** <u>Missing Number: 11.</u> NEAR NUMBER BONDS TO 20. Or SUBTRACTING TEN.
Choice C 	**Choice C** <u>BEST CHOICE: 20.</u> 900 IS A MUCH BIGGER NUMBER. IF THE ANSWER WAS 900 THEN THE ARROW WOULD BE POINTING EXACTLY AT THE 900 LINE. 100 IS SMALLER BUT IF IT WAS 100 THEN THE ARROW WOULD BE POINTING EXACTLY AT 100. SO THE BEST CHOICE IS 20, WHICH IS NEAR TO 0 ON THIS NUMBER LINE.
Choice D What number? 	**Choice D** <u>Represented number: 2101</u> I HAVE TWO THOUSANDS. I HAVE ONE HUNDRED. I HAVE NO TENS. I HAVE ONE ONE. SO THE NUMBER I HAVE IS TWO THOUSAND, ONE HUNDRED AND ONE.

Choice A

Choice A

Missing Number: 5.

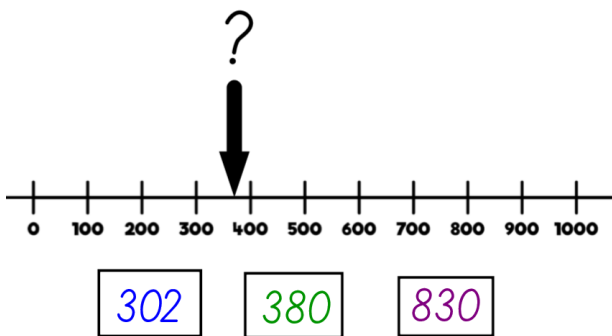NUMBER BONDS TO 10
or DOUBLES/HALVES.

Choice B
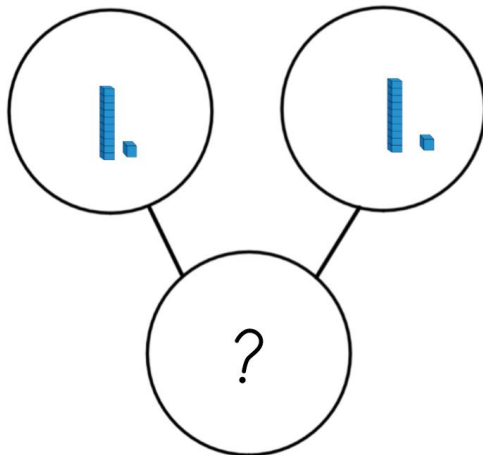
Choice B

Missing Number: 22.

I HAVE AN ELEVEN AND AN ELEVEN.
TWO TENS IS TWENTY.
TWO ONES IS TWO.
TWENTY AND TWO IS TWENTY-TWO.

I COULD USE DOUBLES AND HALVES.
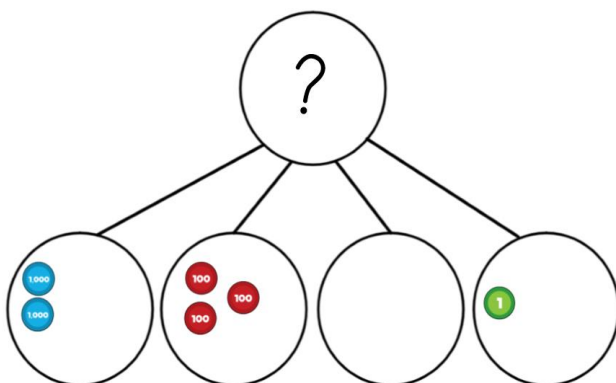Or PARTITION AND ADD TENS AND ONES.

Choice C

| 302 | 380 | 830 |

Choice C

BEST CHOICE: 380

830 IS A MUCH BIGGER NUMBER. IF THE ANSWER WAS 830 THEN THE ARROW WOULD BE MUCH CLOSER TO 800.

302 IS BETWEEN 300 AND 400, BUT IF IT WAS 302 THE ARROW WOULD BE REALLY CLOSE TO 300.

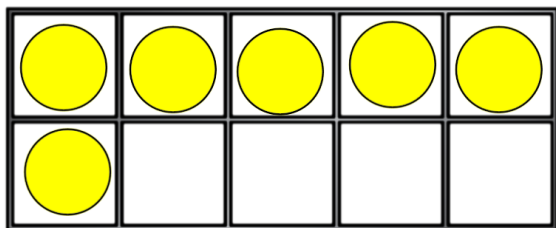SO THE BEST CHOICE IS 380 BECAUSE THE ARROW IS BETWEEN 300 AND 400, BUT IT IS CLOSER TO 400.

Choice D

Choice D

Missing Number: 2301.

I HAVE TWO THOUSANDS, THREE HUNDREDS, NO TENS AND ONE ONE.

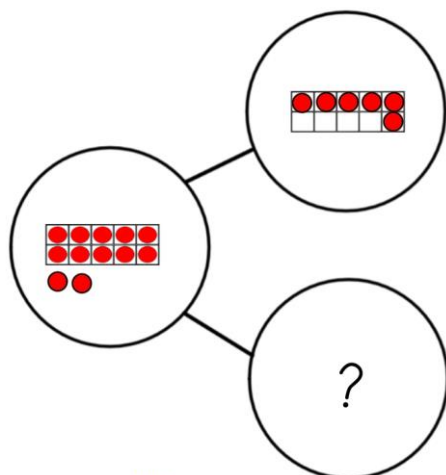I HAVE TWO THOUSAND, THREE HUNDRED AND ONE.

Choice A	Choice A
What number?	Represented number: 6.
	NUMBER BONDS TO 10. Or ONE MORE THAN A ROW OF FIVE.

Choice B	Choice B
?	Missing number: 6.
	DOUBLES/HALVES.
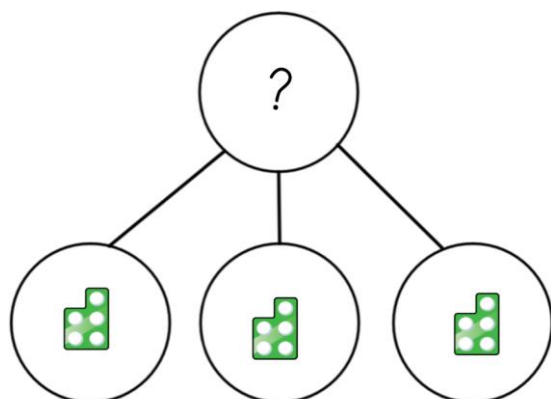
Choice C	Choice C
?	Missing number: 15.
	COUNT IN MULTIPLES OF FIVE Or FIVE TIMES TABLE

Choice D	Choice D
What number?	Represented number: 4301

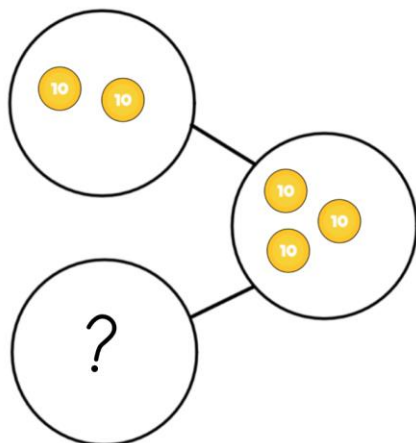| Thousands	Hundreds	Tens	Ones
1,000 1,000 1,000 1,000	100 100 100		1

FOUR THOUSAND, THREE HUNDRED AND ONE.

What number?
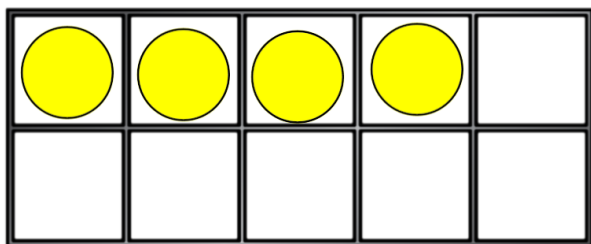
Represented number: 4.

NUMBER BONDS to 10.
ONE LESS THAN A ROW OF FIVE.
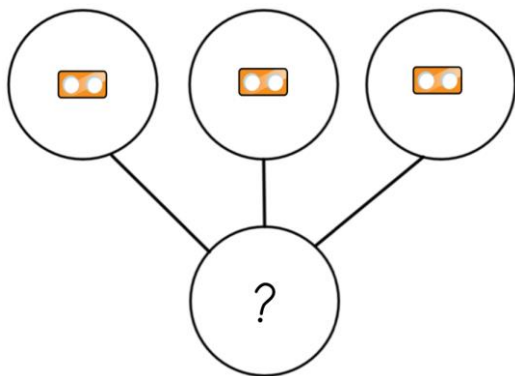
Missing number: 10.

I HAVE TWENTY AND I NEED TO MAKE THIRTY.
THIRTY IS TEN MORE THAN TWENTY.

Missing number: 6.

COUNT IN MULTIPLES OF TWO
Or TWO TIMES TABLE

What number?

Thousands	Hundreds	Tens	Ones

Represented number: 2174.

TWO THOUSAND, ONE HUNDRED AND SEVENTY-FOUR.
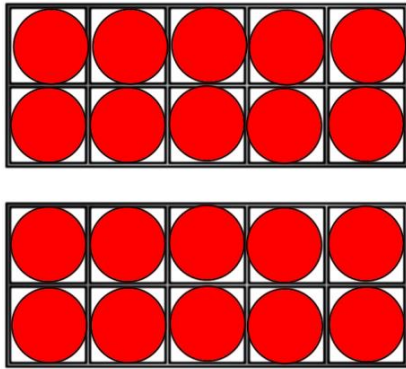
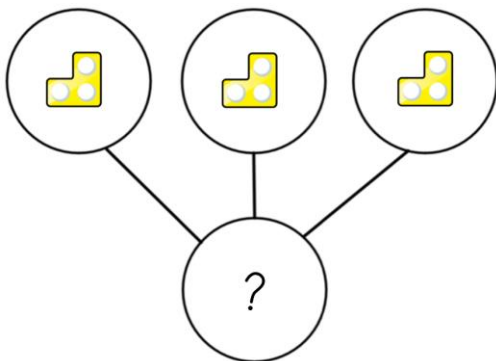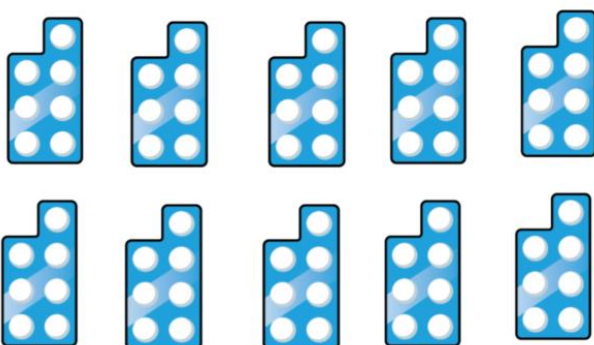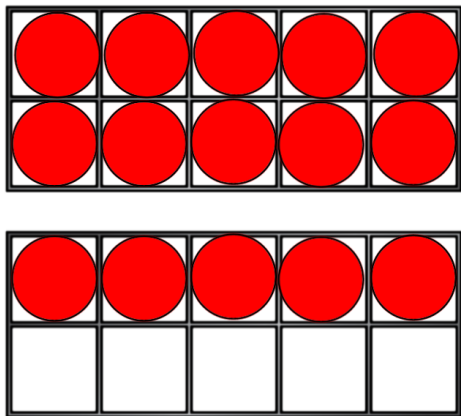| Choice A	Choice A
What number? 	Represented number: 20. NUMBER BONDS TO 20. Or COUNT IN TENS.
Choice B	Choice B
  0 50 100 150 200 250 300 350 400 450 500 498 450 90	<u>Best Choice: 498.</u> THE ARROW IS REALLY CLOSE TO 500. IT CANNOT BE 90 BECAUSE THAT IS A MUCH SMALLER NUMBER AND IT WOULD BE NEARER TO 100. IT CANNOT BE 450 BECAUSE THEN THE ARROW WOULD BE ON THE 450 NUMBER EXACTLY.
Choice C	Choice C
	<u>Missing number: 9.</u> COUNT IN MULTIPLES OF THREE Or THREE TIMES TABLE
Choice D	Choice D
How many? 	<u>Total: 70.</u> THERE ARE TEN GROUPS. EACH GROUP HAS SEVEN. TEN GROUPS OF SEVEN IS SEVENTY.
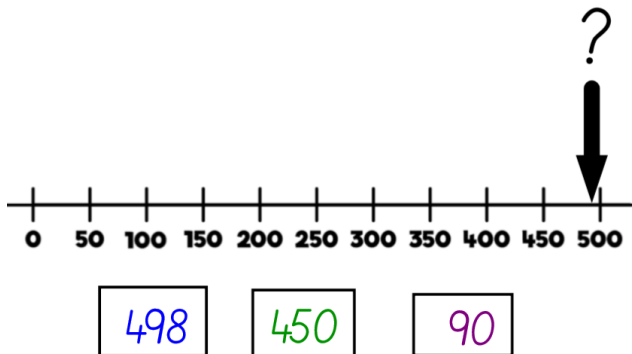
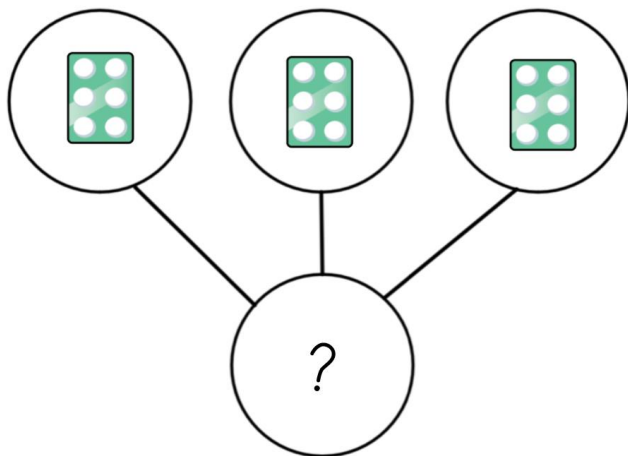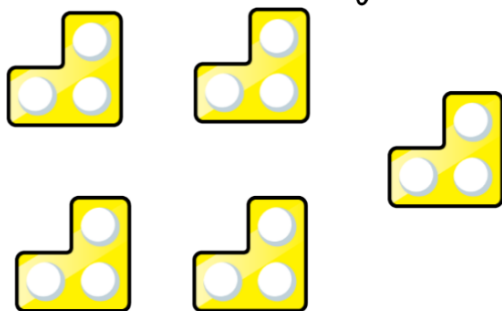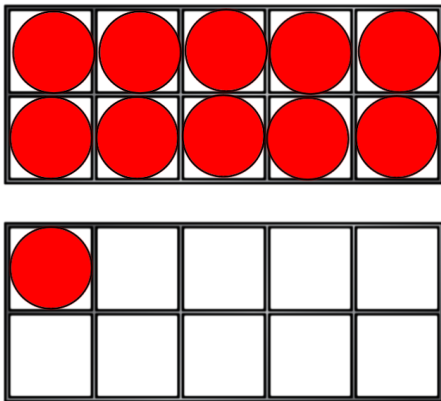|	
Choice A	Choice A
What number? 	Represented number: 15. COUNT IN MULTIPLES OF 5. Or NUMBER BONDS TO 20.
Choice B	Choice B
 0 50 100 150 200 250 300 350 400 450 500 *310* *110* *10*	Best Choice: 110. THE ARROW IS BETWEEN 100 AND 150. IT CANNOT BE 310 BECAUSE THAT IS MORE THAN 150. IT CANNOT BE 10 BECAUSE THAT WOULD BE REALLY NEAR TO 0. SO THE BEST CHOICE IS 110.
Choice C	Choice C
	Missing number: 18. COUNT IN MULTIPLES OF SIX Or SIX TIMES TABLE. Or USE THE THREE TIMES TABLE.
Choice D	Choice D
How many? 	Total: 15. THERE ARE FIVE GROUPS. THERE IS THREE IN EACH GROUP. FIVE GROUPS OF THREE IS FIFTEEN.
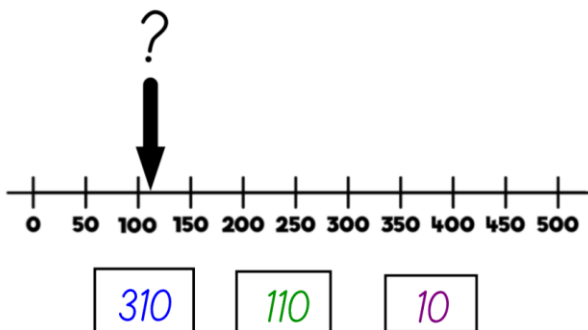
What number?

Represented number: 11.

NEAR NUMBER BONDS TO 10.
ONE MORE THAN TEN.

What number?

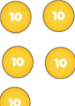| Hundreds	Tens	Ones

Represented number: 120.

I HAVE ONE HUNDRED, TWO TENS AND NO ONES.

SO THE NUMBER I HAVE IS ONE HUNDRED AND TWENTY.
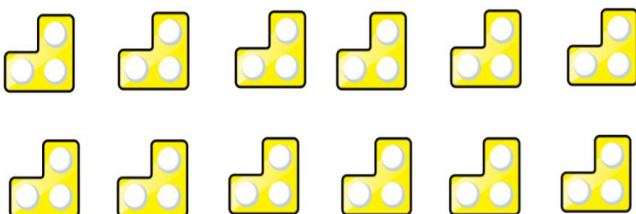

What number?

Hundreds	Tens	Ones

Represented number: 555.

I HAVE FIVE HUNDREDS, FIVE TENS AND FIVE ONES.
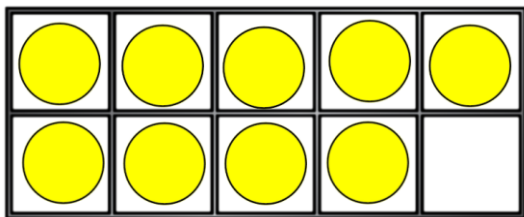
I HAVE FIVE HUNDRED AND FIFTY-FIVE.

How many?

Total: 36.

THERE ARE TWELVE GROUPS OF THREE.

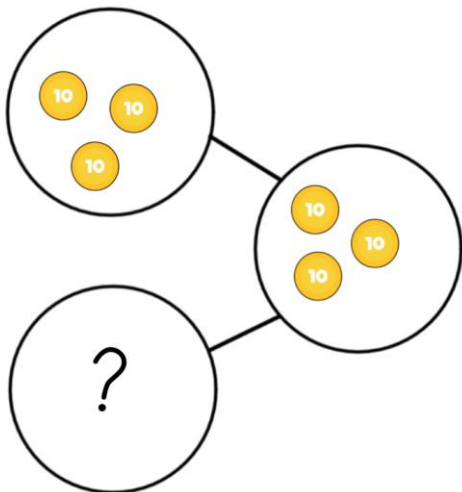TEN GROUPS OF THREE IS THIRTY. SO TWELVE GROUPS OF THREE IS THIRTY-SIX.

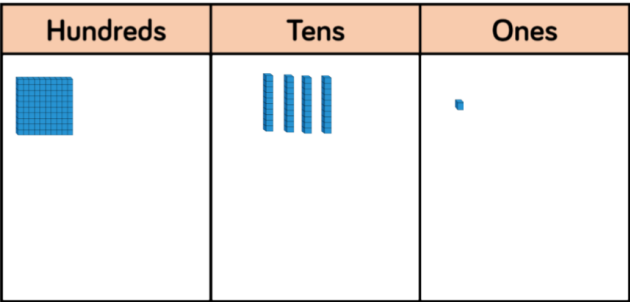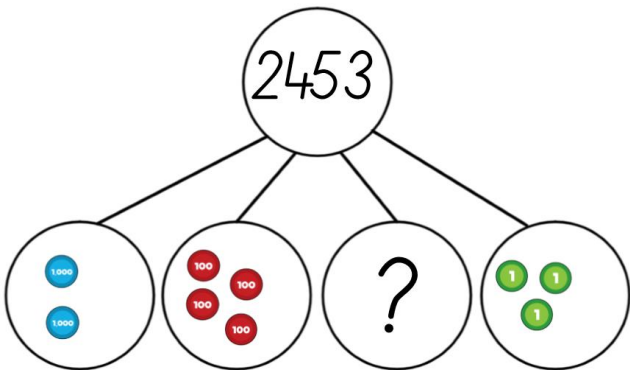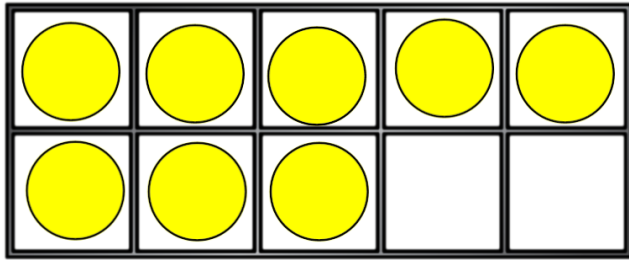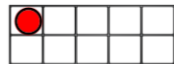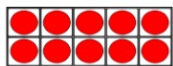| Choice A	Choice A
What number?	Represented number: 9. NUMBER BONDS TO TEN. ONE LESS THAN A FULL TEN.
Choice B 	**Choice B** Missing number: 0. I HAVE THIRTY AND I NEED TO MAKE THIRTY. SO THE MISSING NUMBER MUST BE ZERO, BECAUSE I HAVE THE RIGHT AMOUNT ALREADY!
Choice C What number? 	**Choice C** Represented number: 141. I HAVE ONE HUNDRED, FOUR TENS AND ONE ONE. SO THE NUMBER I HAVE IS ONE HUNDRED AND FORTY-ONE.
Choice D 	**Choice D** Missing Number: 50. THE TENS DIGIT IS 5. SO THE MISSING NUMBER IS FIFTY.

What number?
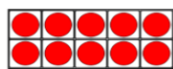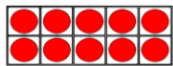
Represented number: 8.

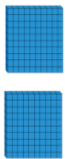NUMBER BONDS TO TEN.
TWO LESS THAN A FULL TEN.

What number?

Represented number: 31.

I HAVE THREE TENS AND A ONE.

I HAVE THIRTY-ONE.

What number?

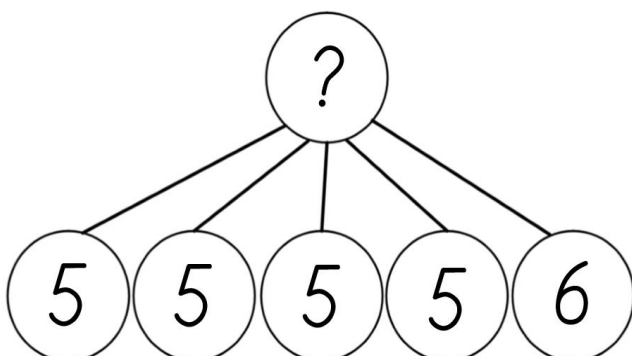| Hundreds	Tens	Ones

Represented number: 242.

I HAVE TWO HUNDREDS, FOUR TENS AND TWO ONES.
SO THE NUMBER I HAVE IS TWO HUNDRED AND
FORTY-TWO.

?

5 5 5 5 6
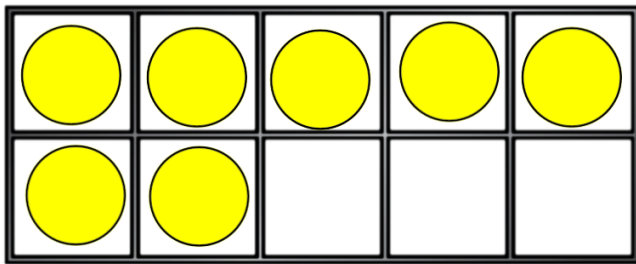
Total: 26.

I HAVE TWO SETS OF FIVE.
EACH SET OF FIVE MAKES TEN.
TWO TENS MAKES TWENTY.
ADD THE SIX AND I HAVE TWENTY-SIX.
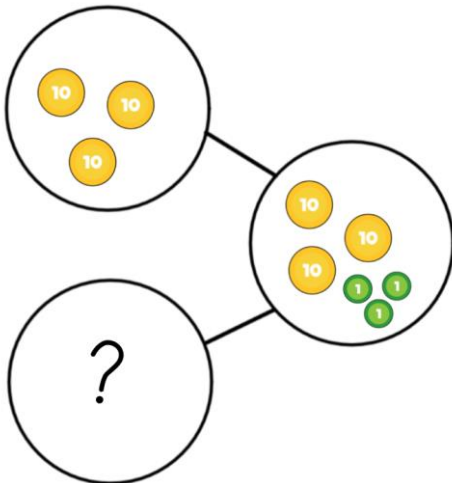
What number?

Choice A

Represented number: 7.

NUMBER BONDS TO TEN.
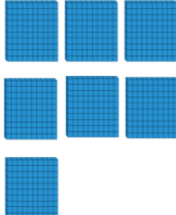TWO MORE THAN A ROW OF FIVE.
THREE LESS THAN A FULL ROW OF TEN.

Choice B

Choice B

Missing number: 3.

I NEED THREE TENS AND THREE ONES.
I ALREADY HAVE THREE TENS.
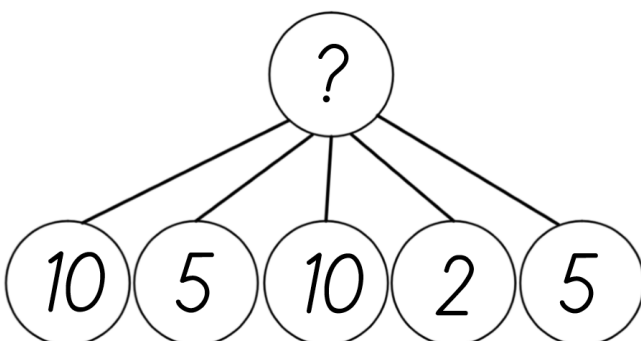SO I NEED THREE ONES.

Choice C

What number?

Hundreds	Tens	Ones

Choice C

Represented number: 704.

I HAVE SIX HUNDREDS AND THEN ANOTHER HUNDRED, SO THATR IS SEVEN HUNDREDS. I HAVE NO TENS. I HAVE FOUR ONES.
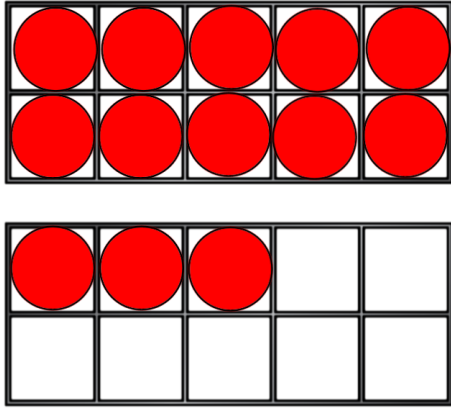SO THE NUMBER IHAVE IS SEVEN HUNDRED AND FOUR.

Choice D

Choice D

Total: 32.

I HAVE TWO TENS.
THE TWO FIVES MAKE ANOTHER TEN.
I NOW HAVE THIRTY.
ADD ON THE TWO AND NOW I HAVE THIRTY-TWO.
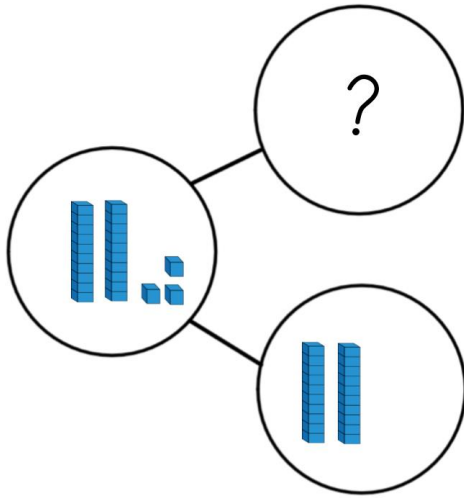
Choice A

What number?

Represented number: 13.
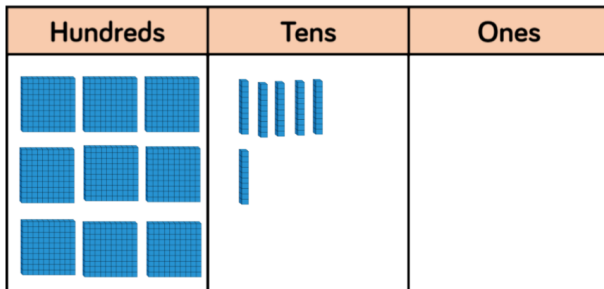
TEN AND THREE MORE.
OR
TWO LESS THAN FIFTEEN.

Choice B

Missing number: 3.

HOW MANY TENS DO YOU NEED?
HOW MANY ONES DO YOU NEED?
PARTITION TWENTY-THREE.
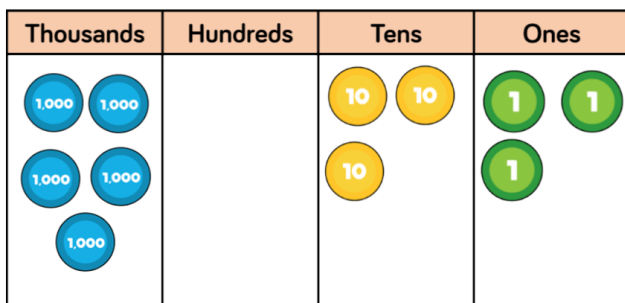I HAVE TWENTY AND I NEED TO MAKE TWENTY-THREE.

Choice C

What number?

Hundreds	Tens	Ones

Represented number: 960

I HAVE NINE HUNDREDS, BECAUSE I CAN SEE THREE
ROWS OF THREE.
I HAVE FIVE TENS AND THEN ONE MORE TEN, SO I
HAVE SIX TENS IN TOTAL.
I HAVE NO ONES.
SO THE NUMBER I HAVE IS NINE HUNDRED AND SIXTY.

Choice D

What number?
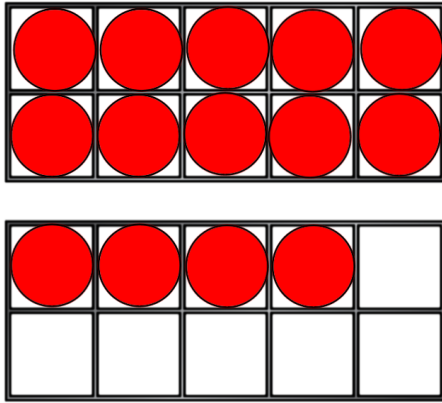
Thousands	Hundreds	Tens	Ones

Represented number: 5033

I HAVE FIVE THOUSANDS.
I HAVE NO HUNDREDS.
I HAVE THREE TENS.
I HAVE THREE ONES.

I HAVE FIVE THOUSAND AND THIRTY-THREE.

What number?

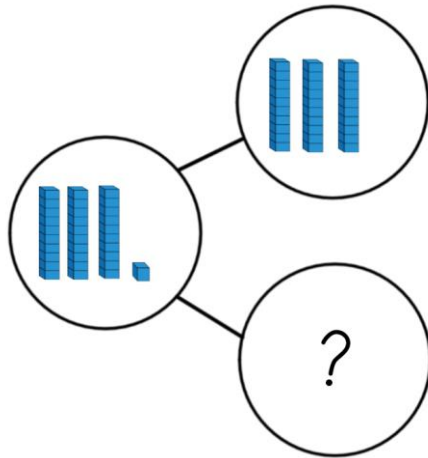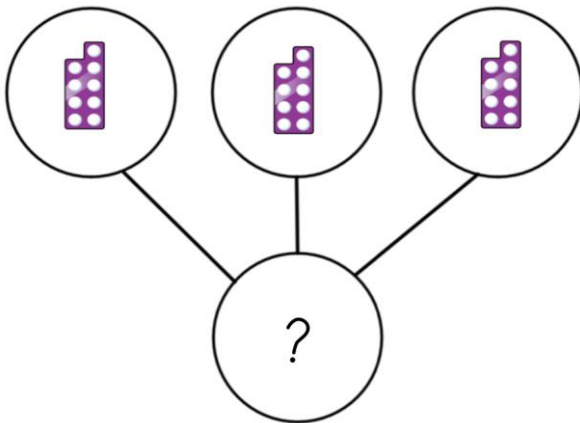Represented number: 14.

TEN AND FOUR MORE.

ONE LESS THAN FIFTEEN.

Missing number: 1.

HOW MANY TENS DO YOU NEED?
HOW MANY ONES DO YOU NEED?
PARTITION THIRTY-ONE.

I HAVE THIRTY AND I NEED TO MAKE THIRTY-ONE.

Missing number: 27.

COUNT IN MULTIPLES OF NINE
Or NINE TIMES TABLE.

What number?

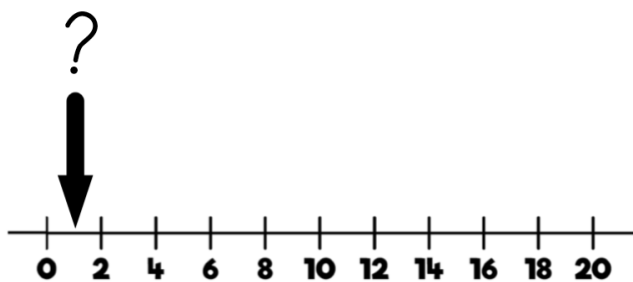| Thousands	Hundreds	Tens	Ones

Represented number: 2482.

I HAVE TWO THOUSANDS.
I HAVE FOUR HUNDREDS.
I HAVE EIGHT TENS.
I HAVE TWO ONES.

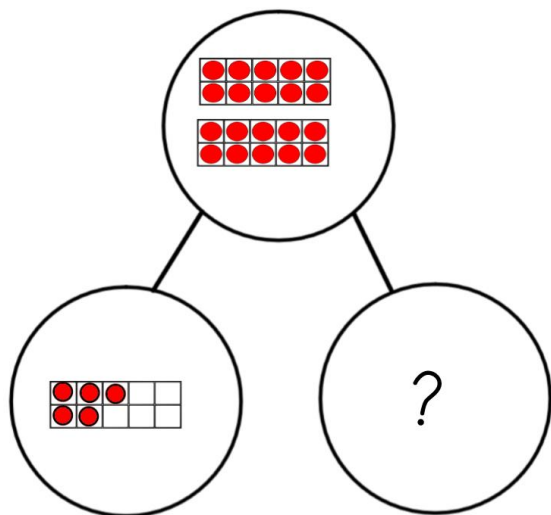I HAVE TWO THOUSAND, FOUR HUNDRED AND
EIGHTY-TWO.

Choice A

Choice A

Missing number: 1.

THE NUMBER BETWEEN 0 AND 2 IS ONE
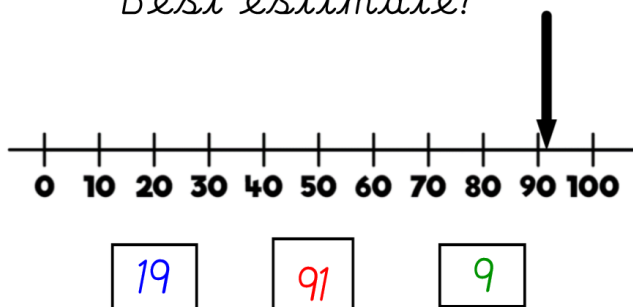
Choice B

Choice B

Missing number: 15.

I NEED TO MAKE TWENTY.
I HAVE FIVE.
I NEED FIFTEEN MORE TO MAKE TWENTY.

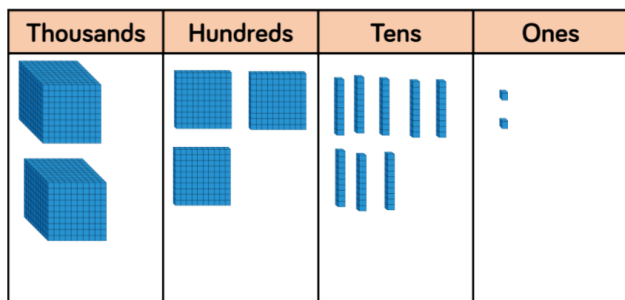## Choice C

Best estimate?

19   91   9

Choice C

Best estimate: 91

THE ARROW IS BETWEEN 90 AND 100.

THE ARROW IS CLOSE TO 90, SO IT MUST BE ONLY SLIGHTLY BIGGER THAN 90.

Choice D

What number?

Thousands	Hundreds	Tens	Ones

Choice D

Represented number: 2382.

I HAVE TWO THOUSANDS.
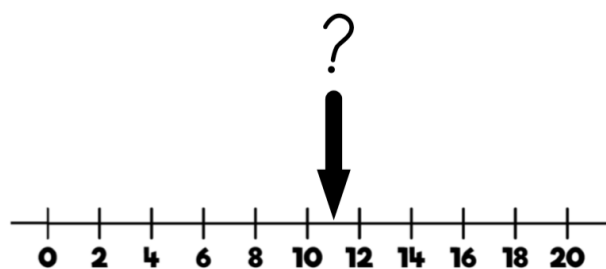I HAVE THREE HUNDREDS.
I HAVE EIGHT TENS.
I HAVE TWO ONES.

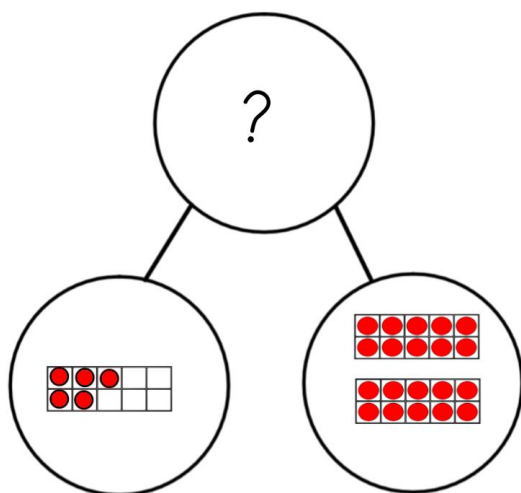I HAVE TWO THOUSAND, THREE HUNDRED AND EIGHTY-TWO.

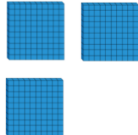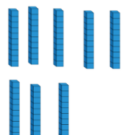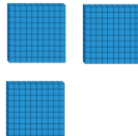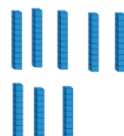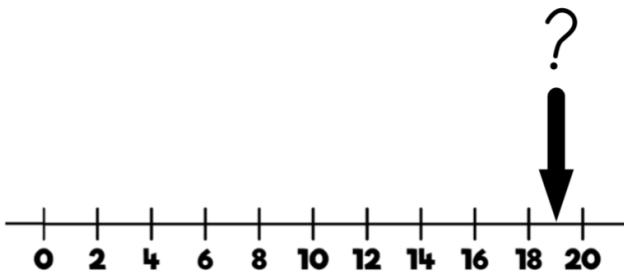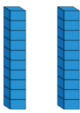| Choice A	Choice A
	Missing number: 11. THE NUMBER BETWEEN 10 and 12 is ELEVEN. ONE MORE THAN TEN IS ELEVEN.
Choice B	**Choice B**
	Missing number: 25. I HAVE TWENTY AND FIVE. I HAVE TWENTY-FIVE.
Choice C	**Choice C**
What number? 	Represented number: 382. I HAVE THREE HUNDREDS, EIGHT TENS AND TWO ONES. I HAVE THREE HUNDRED and EIGHTY-TWO.
Choice D	**Choice D**
What number? 	Represented number: 1380. I HAVE ONE THOUSAND, THREE HUNDREDS, EIGHT TENS AND NO ONES. I HAVE ONE THOUSAND, THREE HUNDRED AND EIGHTY.

Missing number: 19.

THE NUMBER BETWEEN 18 and 20 IS NINETEEN.

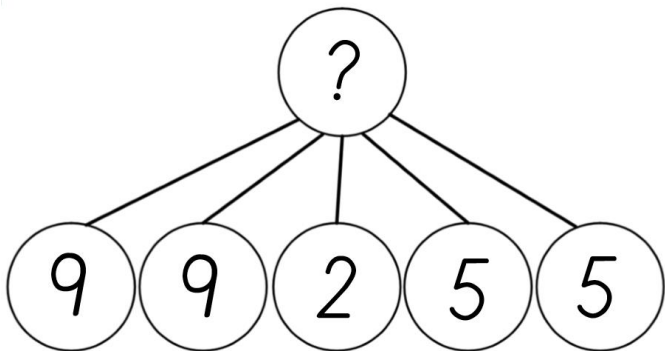ONE LESS THAN TWENTY is NINETEEN.

What number?

Tens	Ones

Represented number: 20

I HAVE TWO TENS.
I HAVE NO ONES.
I HAVE TWENTY.

Missing number: 30
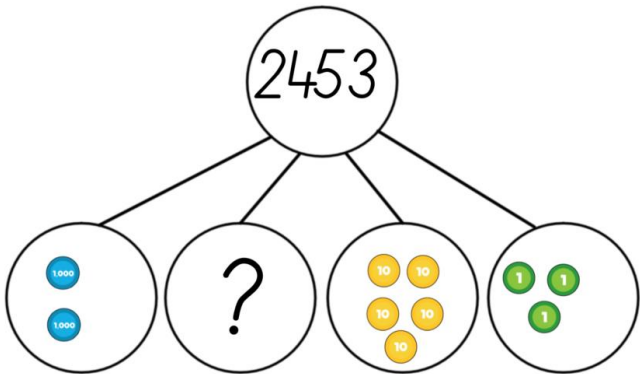
I HAVE TWO NINES WHICH IS EIGHTEEN.
ADD TWO MAKES TWENTY.
TWO FIVES MAKES A TEN.
TWENTY AND TEN MAKES THIRTY.

Missing number: 400.
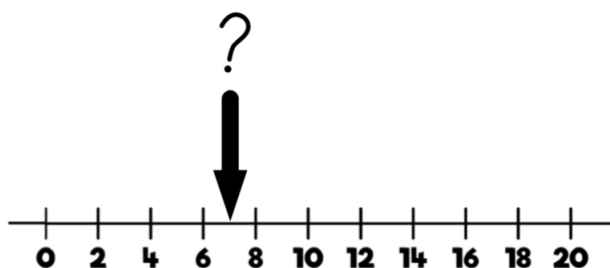
I HAVE A FOUR IN THE HUNDREDS PLACE.

I NEED FOUR HUNDREDS.

Choice A

?

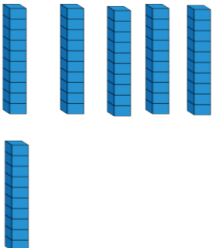0 2 4 6 8 10 12 14 16 18 20

Choice A

Missing number: 7.

THE NUMBER BETWEEN 6 and 8 IS SEVEN.

ONE MORE THAN SIX IS SEVEN.

Choice B

What number?

Tens	Ones

Choice B

Represented number: 64

I HAVE SIX TENS.
I HAVE FOUR ONES.
I HAVE SIXTY-FOUR.

Choice C

What number?

Hundreds	Tens	Ones

Choice C

Represented number: 533

I HAVE FIVE HUNDREDS.
I HAVE THREE TENS.
I HAVE THREE ONES.
I HAVE FIVE HUNDRED AND THIRTY-THREE.

Choice D

What number?

Thousands	Hundreds	Tens	Ones

Choice D

Represented number: 3530

I HAVE THREE THOUSANDS.
I HAVE FIVE HUNDREDS.
I HAVE THREE TENS.
I HAVE NO ONES.

Choice A

What number?
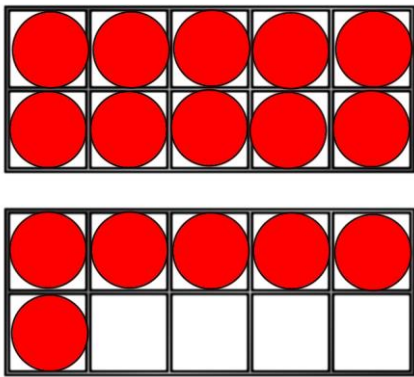
Represented number: 16

A FULL TEN AND A FIVE AND A ONE IS SIXTEEN.

FOUR LESS THAN TWENTY IS SIXTEEN.

Choice B

What number?

Tens	Ones
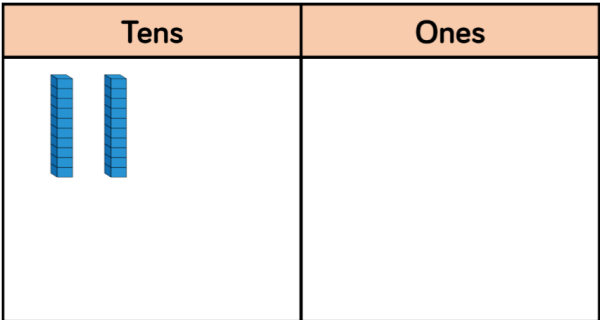
Represented number: 20

I HAVE TWO TENS.
I HAVE NO ONES.
I HAVE TWENTY.

Choice C

Missing number: 300

I HAVE THREE HUNDREDS.
I HAVE THREE HUNDRED.

Choice D

What number?

Thousands	Hundreds	Tens	Ones
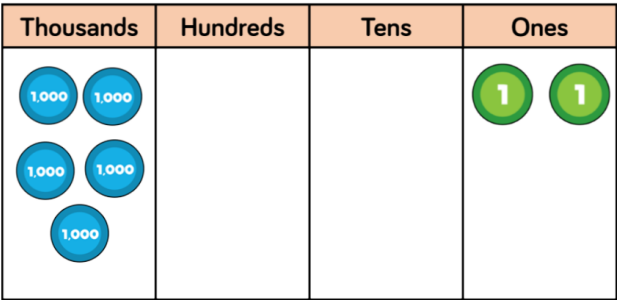
Represented number: 5002

I HAVE FIVE THOUSANDS.
I HAVE NO HUNDREDS OR TENS.
I HAVE TWO ONES.
I HAVE FIVE THOUSAND AND TWO.

Choice A
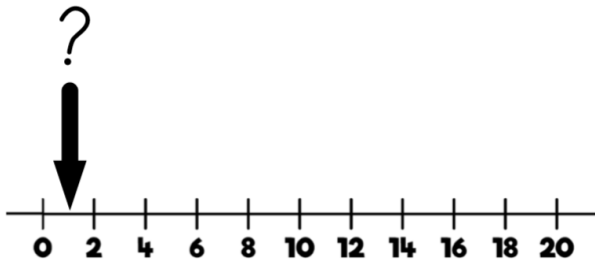
Missing number: 1.

THE NUMBER BETWEEN 0 and 2 IS ONE.

ONE MORE THAN ZERO IS ONE.

Choice B

What number?

Tens	Ones
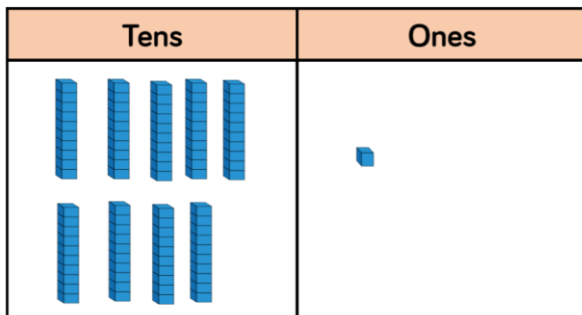
Choice B

Represented number: 91

I HAVE NINE TENS.
I HAVE ONE ONE.
I HAVE NINETY-ONE.

Choice C

What number?

Hundreds	Tens	Ones
100	10	
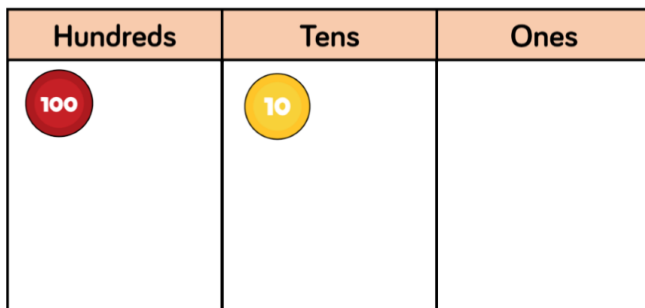
Choice C

Represented number: 110

I HAVE ONE HUNDRED.
I HAVE ONE TEN.
I HAVE NO ONES.
I HAVE ONE HUNDRED AND TEN.

Choice D

Choice D

Missing number: 135

I HAVE A HUNDRED.
I HAVE THREE TENS.
I HAVE A FIVE.
I HAVE ONE HUNDRED AND THIRTY-FIVE.

What number?

Represented number: 9.

ONE LESS THAN TEN IS NINE.
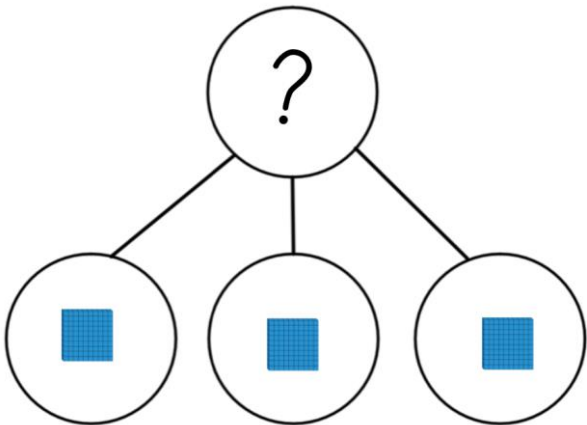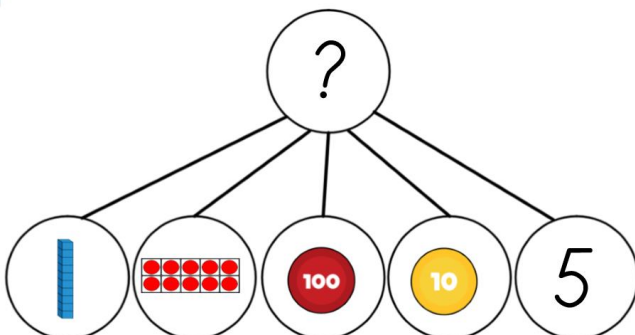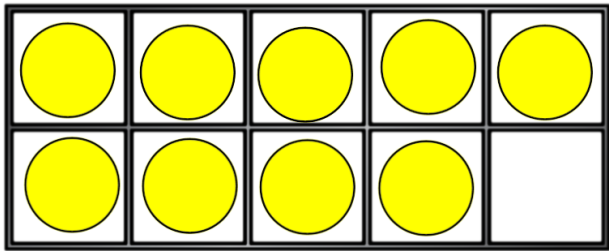
Choice B

What number?

Tens	Ones
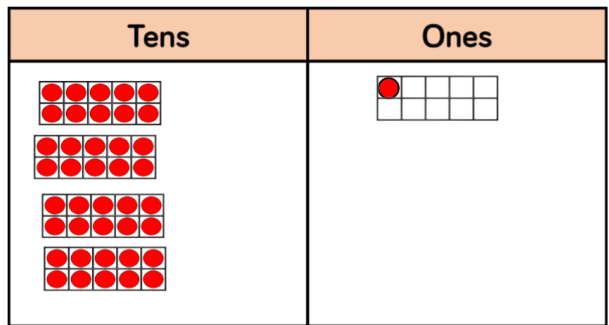
Choice B

Represented number: 41

I HAVE FOUR TENS.
I HAVE ONE ONE.
I HAVE FORTY-ONE.

Choice C

Best estimate?

0 10 20 30 40 50 60 70 80 90 100

35   39   3
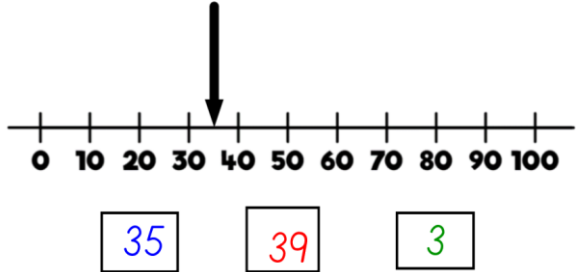
Choice C

Best estimate: 35

THE ARROW IS HALFWAY BETWEEN 30 AND 40.

IF IT WAS THREE IT WOULD BE BETWEEN 0 AND 10.
IF IT WAS 39, IT WOULD BE NEARER TO THE 40.

Choice D

?

1,000   10   100   10   0

Choice D

Missing number: 1120.

I HAVE ONE THOUSAND.
I HAVE ONE HUNDRED.
I HAVE TWO TENS.
I HAVE A ZERO.

I HAVE ONE THOUSAND, ONE HUNDRED AND TWENTY.
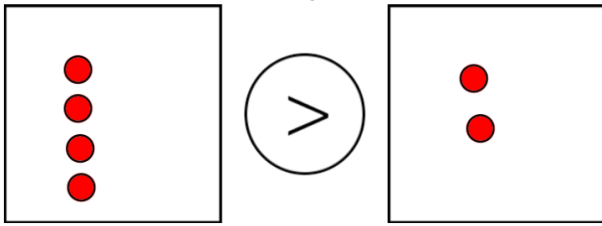
True or false?

True!

FOUR IS GREATER THAN TWO.
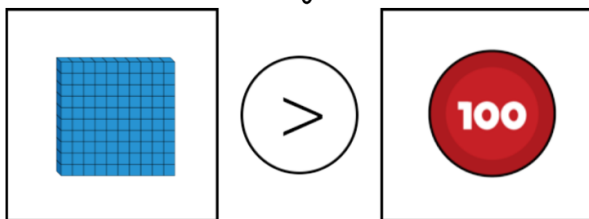
True or false?

False!

ONE HUNDRED IS EQUAL TO ONE HUNDRED, THEY ARE JUST SHOWN IN DIFFERENT WAYS.

True or false?

True!

THREE HUNDRED AND ONE TEN IS 310.
FOUR HUNDRED IS 400.

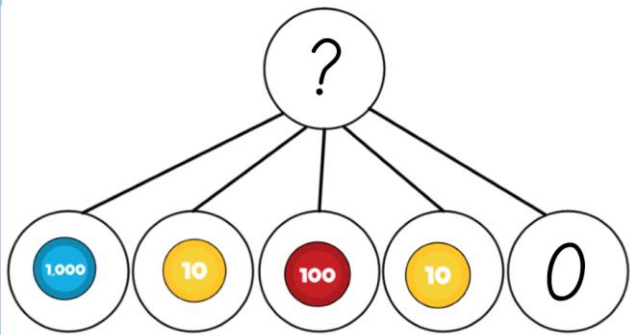THREE HUNDRED AND TEN IS LESS THAN FOUR HUNDRED.

True or false?

True!

THERE ARE TWO THOUSANDS ON BOTH SIDES BUT THE TEN IS LESS THAN THE HUNDRED.

SO TWO THOUSAND AND TEN IS LESS THAN TWO THOUSAND ONE HUNDRED.

True or false?

True!

EIGHT IS GREATER THAN FOUR.

True or false?

True!

ELEVEN IS GREATER THAN FIVE.
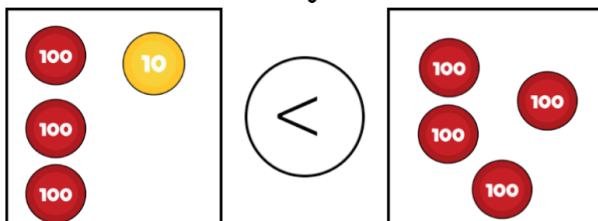
I CAN SEE A TEN ON THE LEFT. JUST THE TEN IS MORE THAN FIVE ONES!
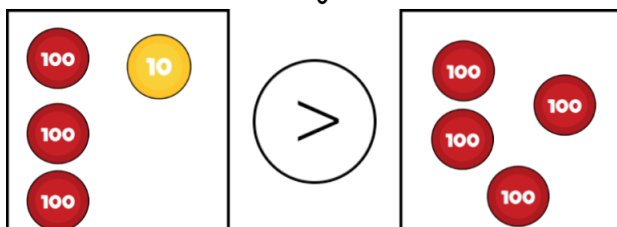
True or false?

False!
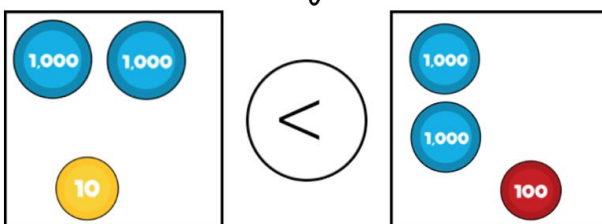
THREE HUNDRED AND ONE TEN IS 310.
FOUR HUNDRED IS 400.

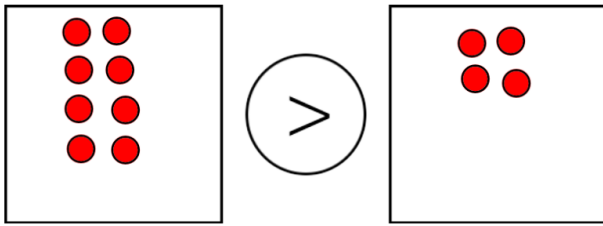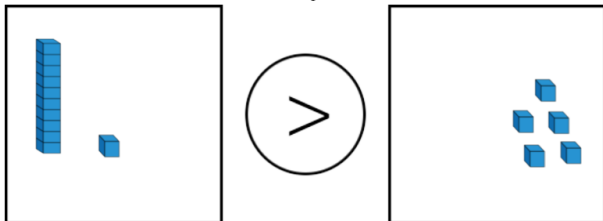THREE HUNDRED AND TEN IS LESS THAN FOUR HUNDRED.
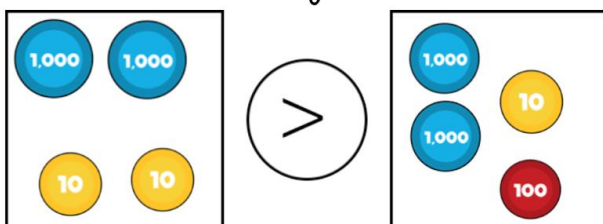
True or false?

False!

THERE ARE TWO THOUSANDS ON BOTH SIDES BUT TWO TENS ARE LESS THAN A HUNDRED AND A TEN.

True or false?

12 (=) 8

False!

TWELVE IS NOT EQUAL TO EIGHT.

True or false?

31 (=) 30+1

True!

THIRTY ADD ONE IS THIRTY-ONE.

True or false?

30+20 (=) 20+30

True!

THIRTY ADD TWENTY IS EQUAL TO TWENTY ADD THIRTY.

ADDITION IS COMMUTATIVE!

True or false?

43+25 (=) 10+12

False!

JUST BY LOOKING AT THE TENS, ICAN SEE THAT A FORTY AND A TWENTY ADDED TOGETHER WILL DEFINTELY BE GREATER THAN TWO TENS ADDED TOGETHER.

True or false?

| 12 | > | 8 |

True!

TWELVE IS GREATER THAN EIGHT.

True or false?

| 31 | > | 10+10 |

True!

TWO TENS MAKE TWENTY.
THIRTY-ONE IS GREATER THAN TWENTY.

True or false?

| 30+20 | > | 20+20 |

True!

THIRTY AND TWENTY IS FIFTY.

TWENTY AND TWENTY IS FORTY.

FIFTY IS GREATER THAN FORTY.

True or false?

| 33+29 | > | 29+29 |

True!

THERE IS A TWENTY-NINE ON BOTH SIDES.

ON ONE SIDE THERE IS ANOTHER TWENTY-NINE. ON THE OTHER SIDE THERE IS A THIRTY-THREE.

THE THIRTY-THREE IS GREATER THAN THE TWENTY-NINE.

True or false?

| 2 | < | 5 |

<u>True!</u>

TWO IS LESS THAN FIVE.

True or false?

| 44 | < | 83 |

<u>True!</u>

44 IS LESS THAN 83.

I KNOW THIS BECAUSE FORTY IS LESS THAN EIGHTY.

True or false?

| 946 | > | 964 |

<u>False!</u>

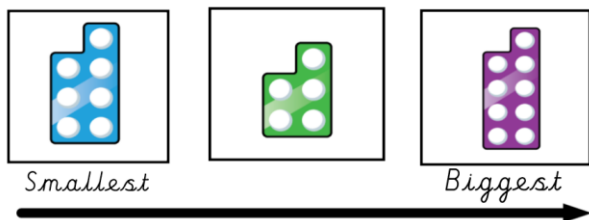THE SIXTY IS GREATER THAN THE FORTY!

True or false?

| 146+82 | > | 25+25 |

<u>True!</u>

25 ADD 25 IS FIFTY.

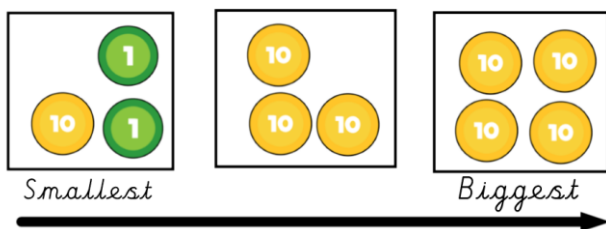146 IS ALREADY GREATER THAN FIFTY, AND THEN WE'RE GOING TO ADD 82 TO IT!

Choice A	Choice A
True or false? [blue number 7 block] [green number 5 block] [purple number 9 block] Smallest → Biggest	False! I HAVE 7, 5 and 9. THEY ARE NOT IN THE CORRECT ORDER.
Choice B	**Choice B**
True or false? [10, 1, 1] [10, 10, 10] [10, 10, 10, 10] Smallest → Biggest	True! I HAVE 12, THEN 30, THEN 40. THEY ARE IN ASCENDING ORDER.
Choice C	**Choice C**
True or false? [100 + 10] [100 + 10 + 10 + 10] [100 + 10 + 10] Smallest → Biggest	False! I HAVE 110, 130 and 120. THEY ARE NOT IN THE CORRECT ORDER.
Choice D	**Choice D**
True or false? [1,000 + 100] [1,000 + 10 + 100 + 100] [1,000 + 100 + 1,000 + 100] Smallest → Biggest	True! I HAVE 1100, 1210 AND 2200. THEY ARE IN ASCENDING ORDER.
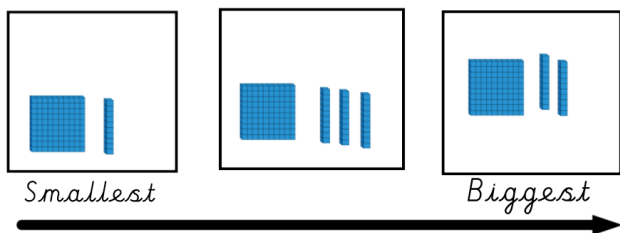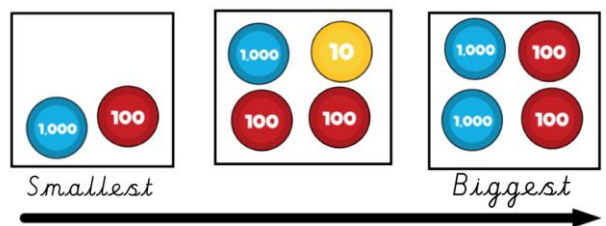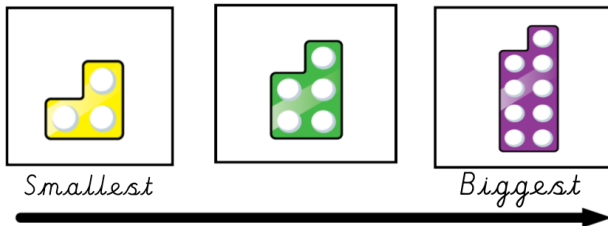
Choice A	Choice A
True or false? Smallest — Biggest	True! I HAVE 3,5 AND 9. THEY ARE IN ASCENDING ORDER.
Choice B	**Choice B**
True or false? Smallest — Biggest	False! I HAVE 12, THEN 10, THEN 30. THEY ARE NOT IN THE CORRECT ORDER.
Choice C	**Choice C**
True or false? Smallest — Biggest	True! I HAVE 210, 300 AND 310. THEY ARE IN ASCENDING ORDER.
Choice D	**Choice D**
True or false? Smallest — Biggest	False! I HAVE 2000, 1200 and 1300. THEY ARE NOT IN THE CORRECT ORDER.
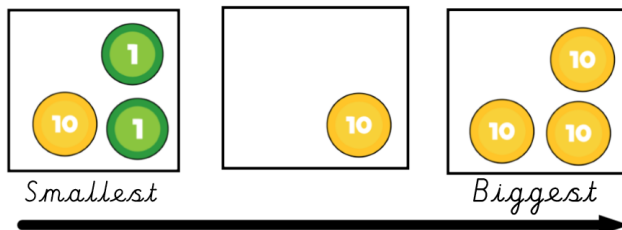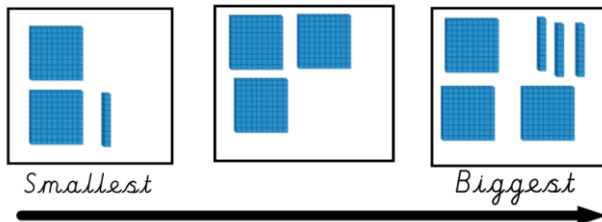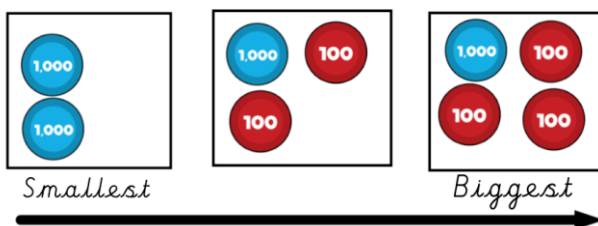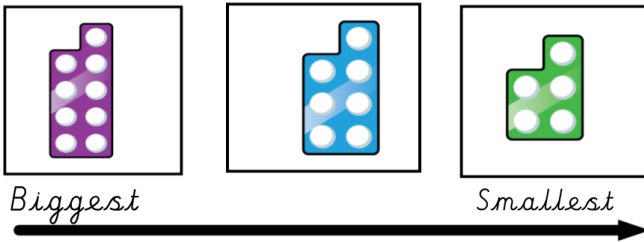
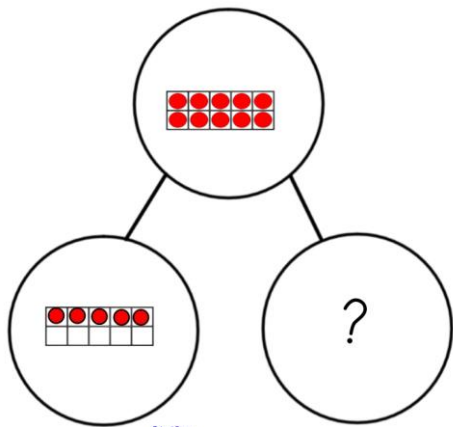| Choice A	Choice A
True or false? Biggest — Smallest	True! I HAVE 9, 7 AND 5. THEY ARE IN DESCENDING ORDER.
Choice B	**Choice B**
True or false? Biggest — Smallest	True! I HAVE 22, 21 AND 20. THEY ARE IN DESCENDING ORDER.
Choice C	**Choice C**
True or false? Biggest — Smallest	True! I HAVE 310, 300 AND 230. THEY ARE IN DESCENDING ORDER.
Choice D	**Choice D**
True or false? Biggest — Smallest	False! I HAVE 1200, 1210 AND 2100. THEY ARE IN ASCENDING ORDER, BUT I NEED THEM TO BE IN DESCENDING ORDER!
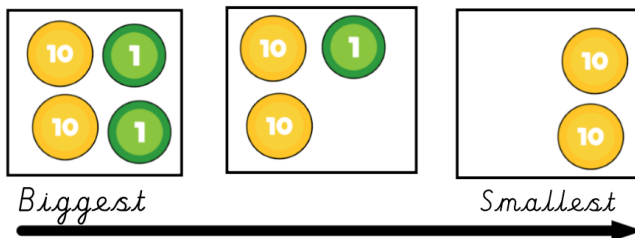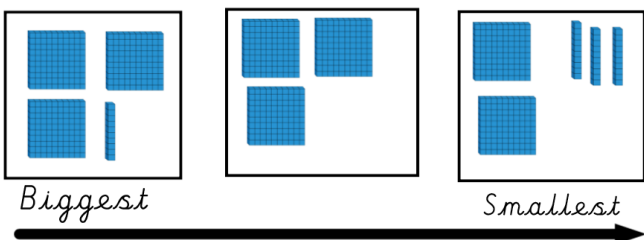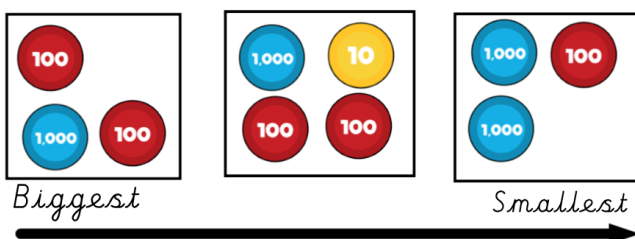
Choice A	Choice A
	Missing Number: 5. NUMBER BONDS TO 10.
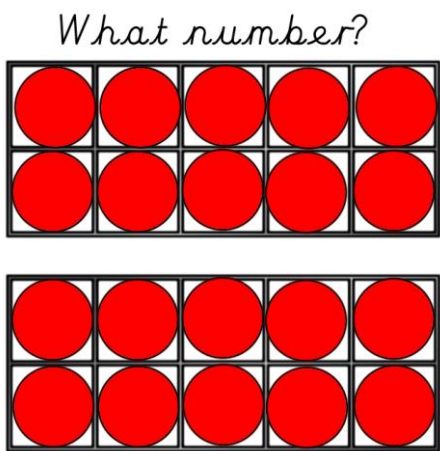
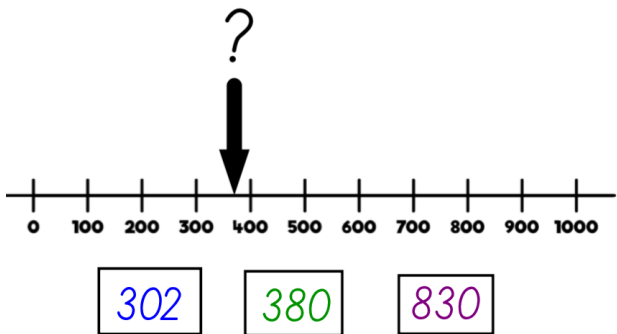| Choice B	Choice B
What number? 	Represented number: 20 TWO TENS IS TWENTY.

Choice C	Choice C
	BEST CHOICE: 380 THE ARROW IS BETWEEN 300 AND 400. IT IS NEARER TO 400, SO 380 IS THE BEST CHOICE.

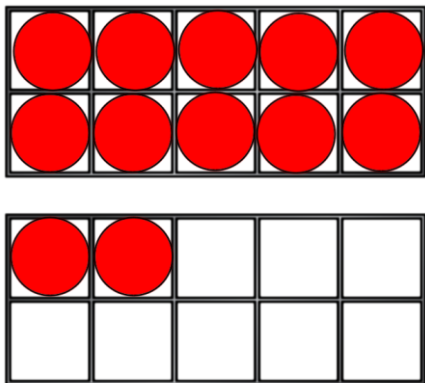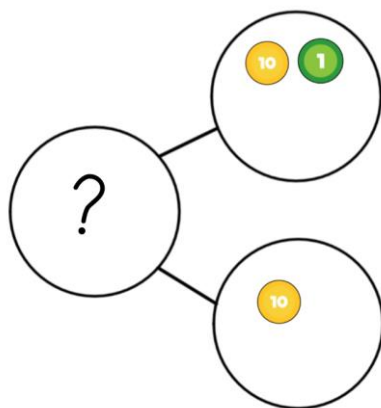| Choice D	Choice D
What number? 	Represented number: 5002 I HAVE FIVE THOUSANDS. I HAVE NO HUNDREDS. I HAVE NO TENS. I HAVE TWO ONES. SO THE NUMBER I HAVE IS FIVE THOUSAND AND TWO.

What number?

Represented number: 12.

I HAVE TEN AND THEN TWO MORE.

I HAVE TWELVE.

Choice B

Choice B

Missing number: 21.

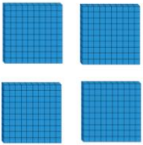I HAVE TWO TENS.

I HAVE A ONE.

I HAVE TWENTY-ONE

Choice C

What number?

Thousands	Hundreds	Tens	Ones

Choice C

Represented number: 432.

I HAVE FOUR HUNDREDS.

I HAVE THREE TENS.

I HAVE TWO ONES.

I HAVE FOUR HUNDRED AND THIRTY-TWO.

Choice D

What number?

Thousands	Hundreds	Tens	Ones

Choice D

Represented number: 5302.

I HAVE FIVE THOUSANDS.
I HAVE THREE HUNDREDS.
I HAVE NO TENS.
I HAVE TWO ONES.

I HAVE FIVE THOUSAND, THREE HUNDRED AND TWO.

What number?

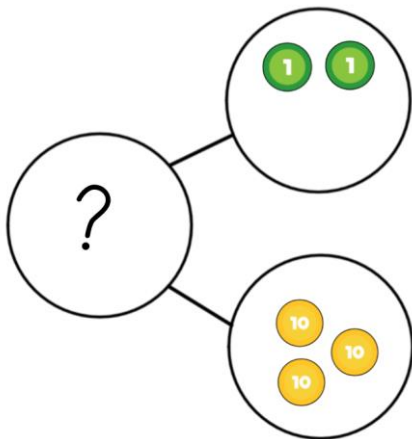Represented number: 1.

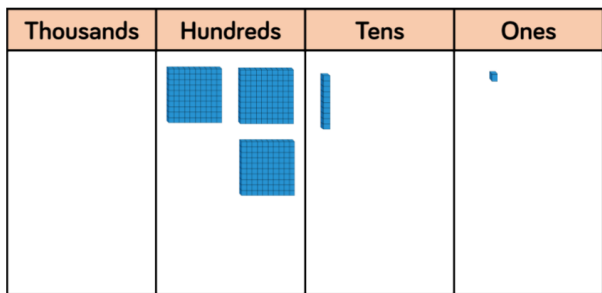I HAVE ONE MORE THAN NOTHING!

I HAVE ONE.

Missing number: 32.

I HAVE THREE TENS.

I HAVE TWO ONES.

I HAVE THRITY-TWO.

What number?

Thousands	Hundreds	Tens	Ones

Represented number: 311

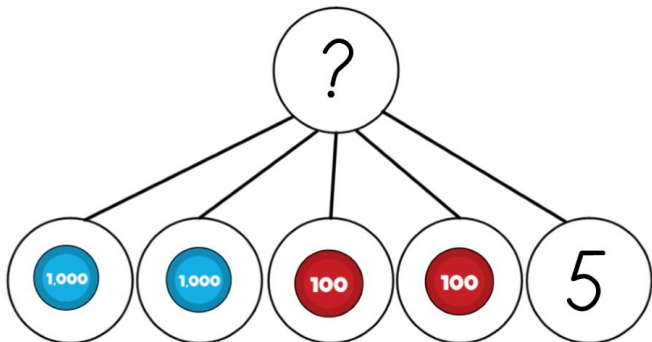I HAVE THREE HUNDREDS.
I HAVE ONE TEN.
I HAVE ONE ONE.

I HAVE THREE HUNDRED AND ELEVEN.

Missing Number: 2205.

I HAVE TWO THOUSANDS.
I HAVE TWO HUNDREDS.
I HAVE FIVE.

I HAVE TWO THOUSAND, TWO HUNDRED AND FIVE.