

Represent numbers to 100

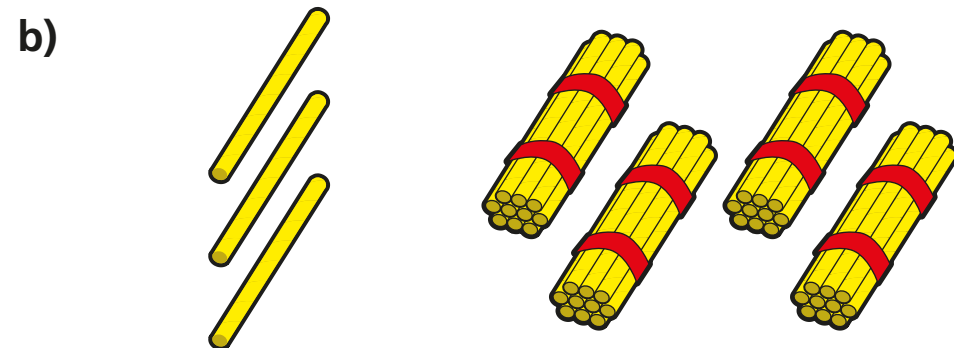


1 Complete the sentences to describe the number.



There is ten and ones.

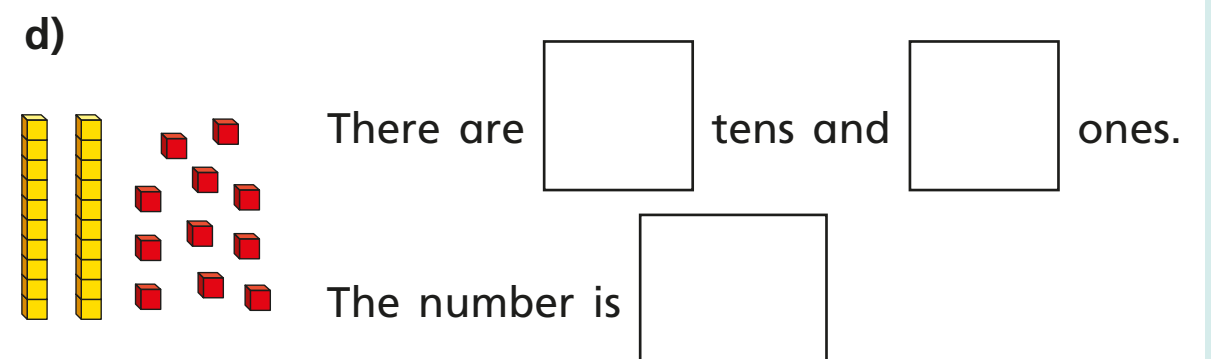
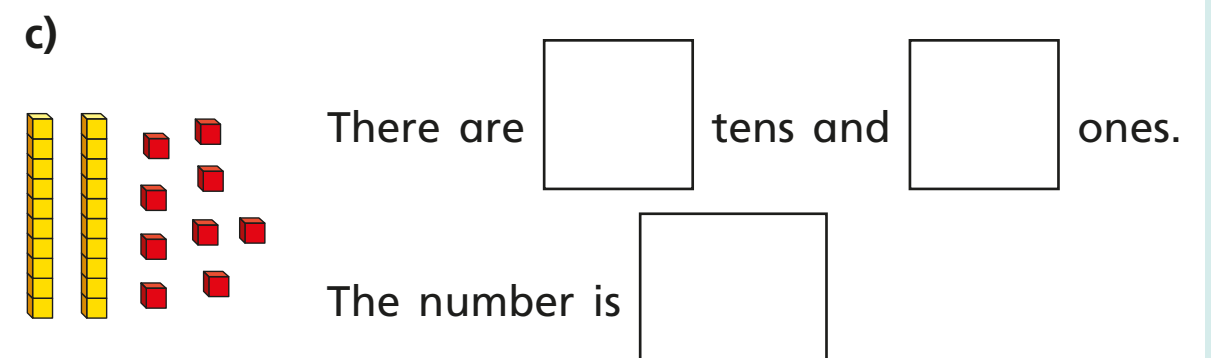
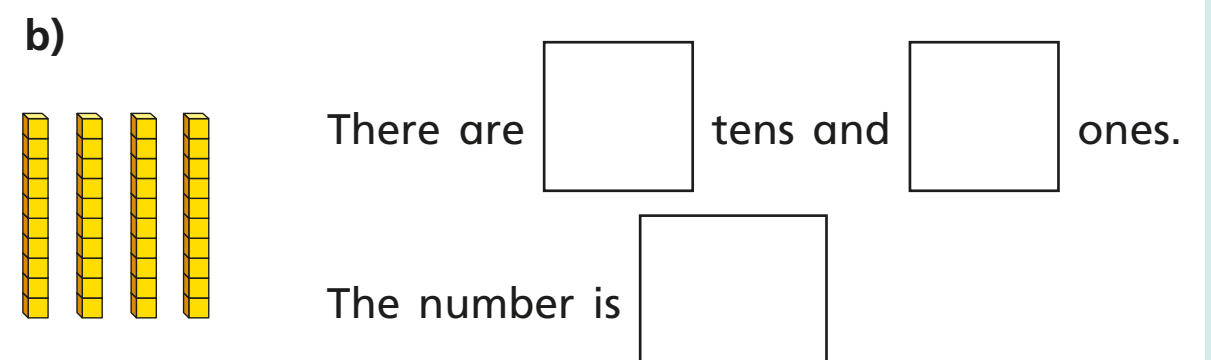
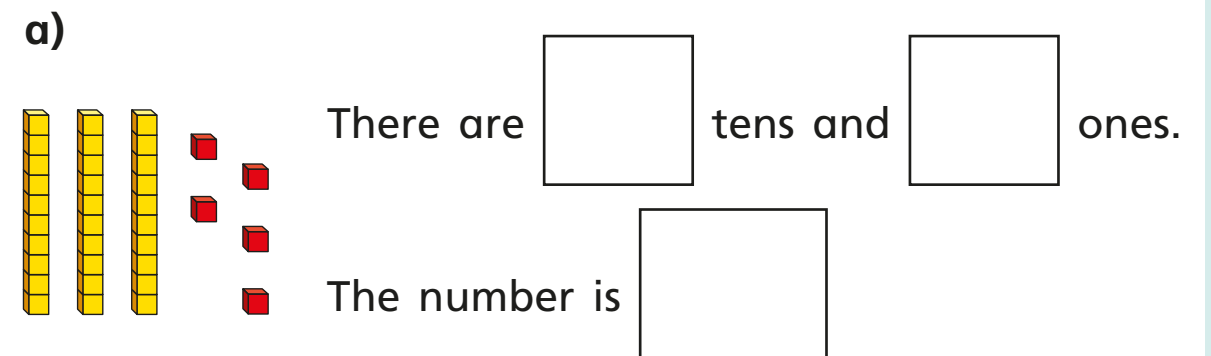
The number is



There are tens and ones.

The number is

2 Complete the sentences.



How did you count the tens and ones?



- 3 Draw a representation of each number.
Complete the sentences.

a)

There is 1 ten and 5 ones.

The number is

b)

There are tens

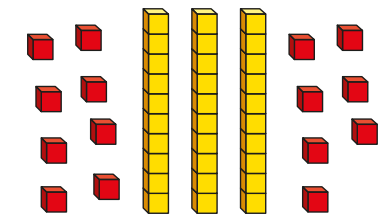
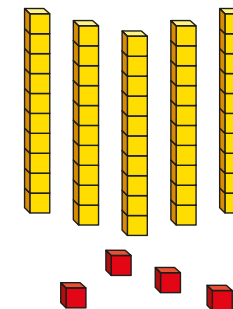
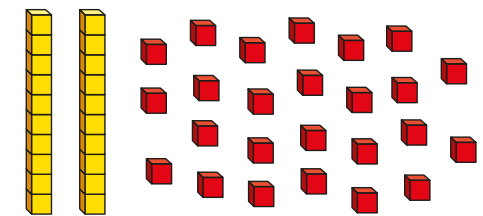
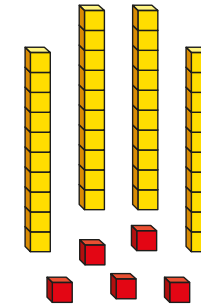
and ones.

The number is 30



- 4 Use base 10 to represent the number 51 in two different ways. Draw your answer.

- 5 Rosie is using base 10 to make 45 in different ways.
Which picture does **not** represent 45?
Circle your answer.



Talk to a partner about the mistake Rosie has made.

- 6 Amir is thinking of a 2-digit number.
- There are 3 more tens than ones.
 - There are 4 ones.

What number is Amir thinking of?

Amir is thinking of the number

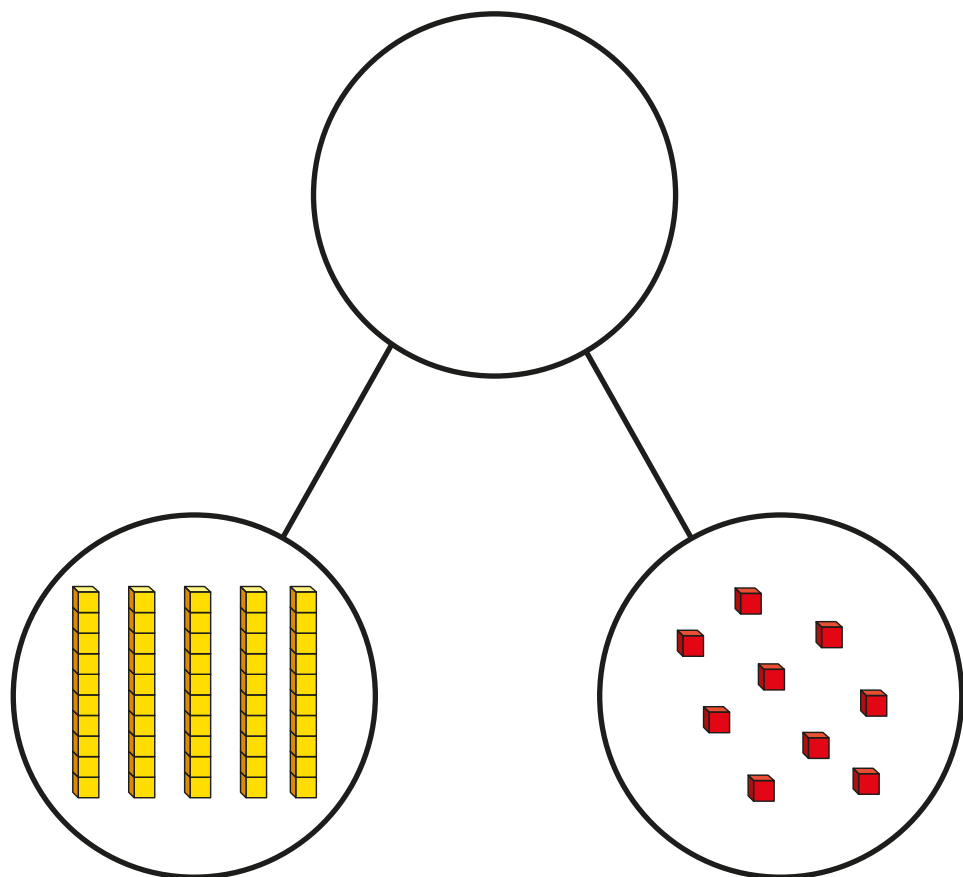
How many different ways can you represent Amir's number?



Tens and ones using addition



1 Draw base 10 to complete the part-whole model.



Complete the sentences.

There are tens and ones.

The whole is

$$\boxed{} + \boxed{} = \boxed{}$$

2 Complete the sentences to describe each number.

- a) 39 has tens and ones.
- b) 70 has tens and ones.
- c) 12 has ten and ones.
- d) 56 has tens and ones.

3 Complete the number sentences to describe each number.
The first one has been done for you.

- a) $39 = 30 + 9$
- b) $70 = \boxed{} + \boxed{}$
- c) $12 = \boxed{} + \boxed{}$
- d) $56 = \boxed{} + \boxed{}$

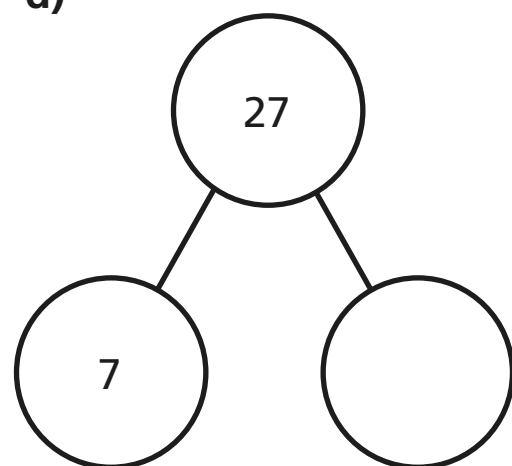
4 Dexter has 30 sweets and Dora has 28 sweets.
Represent the total number of sweets:

- using base 10
- as a part-whole model
- as a number sentence.

5 Complete the part-whole models.

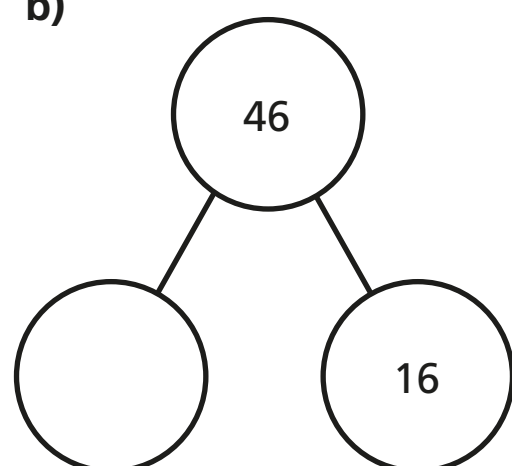
Write four number sentences to match each part-whole model.

a)



	+		=	
	+		=	
	=		+	
	=		+	

b)



	+		=	
	+		=	
	=		+	
	=		+	

6 Complete the number sentences.

a) $35 = 30 + \square$	e) $19 + 20 = \square$
b) $20 + \square = 29$	f) $67 = 50 + \square$
c) $42 = 2 + \square$	g) $99 = \square + 39$
d) $50 + 7 = \square$	h) $40 + 30 + \square = 81$

7 Annie thinks that $50 + 9 = 509$

Show that Annie is wrong.

How would you help Annie to get it right next time?

Talk about it with a partner.

8 Complete the number sentence.

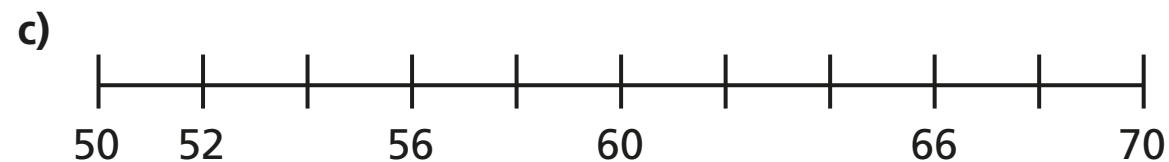
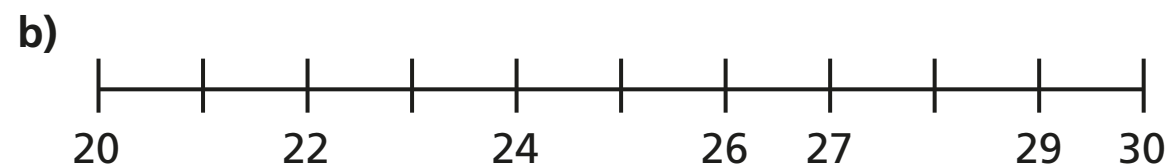
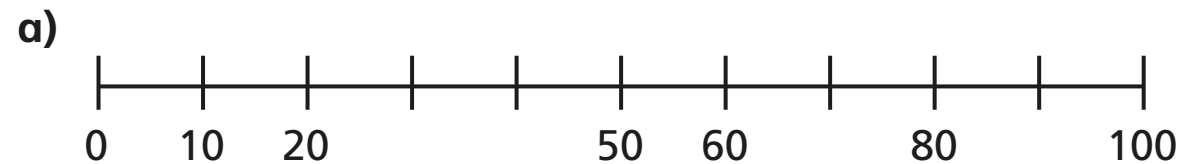
$30 + \square = 20 + \square$

Compare your answer with a partner's answer.

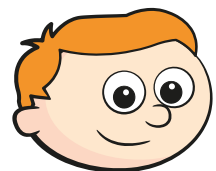
How many different ways can you complete the number sentence?

Number line to 100

1 Complete the number lines.

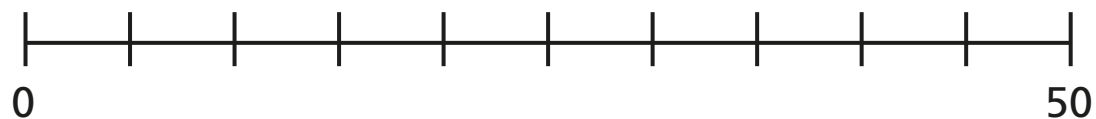


2



Ron

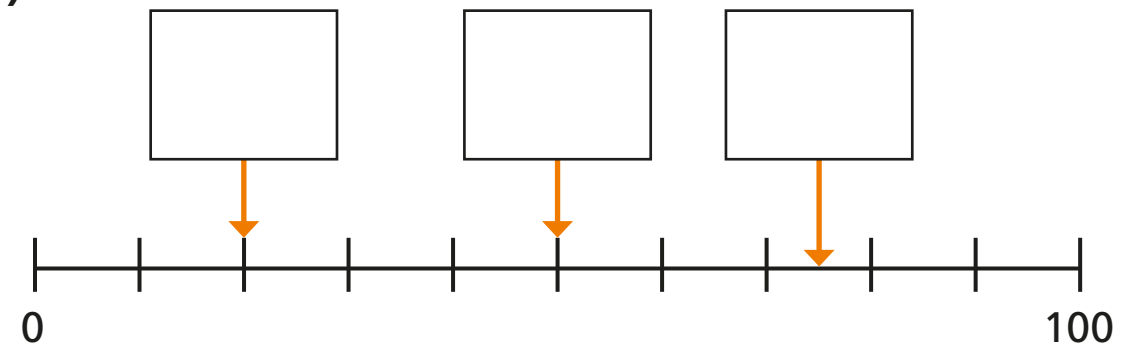
I think this number line goes up in 5s.



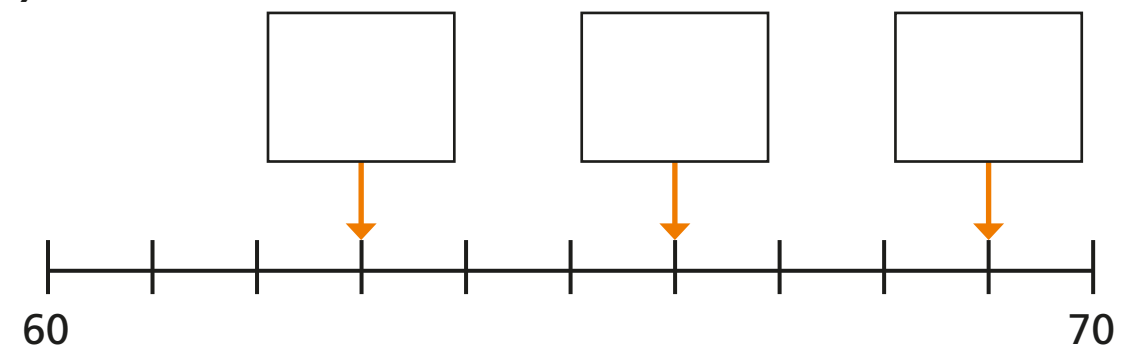
Show a partner that Ron is correct.

3 What numbers are the arrows pointing to?

a)



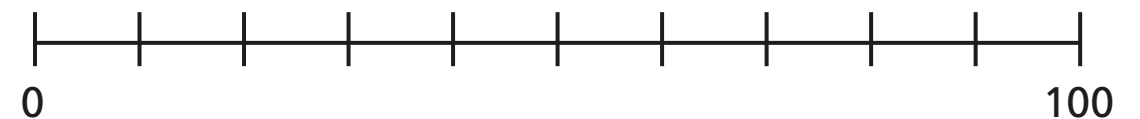
b)



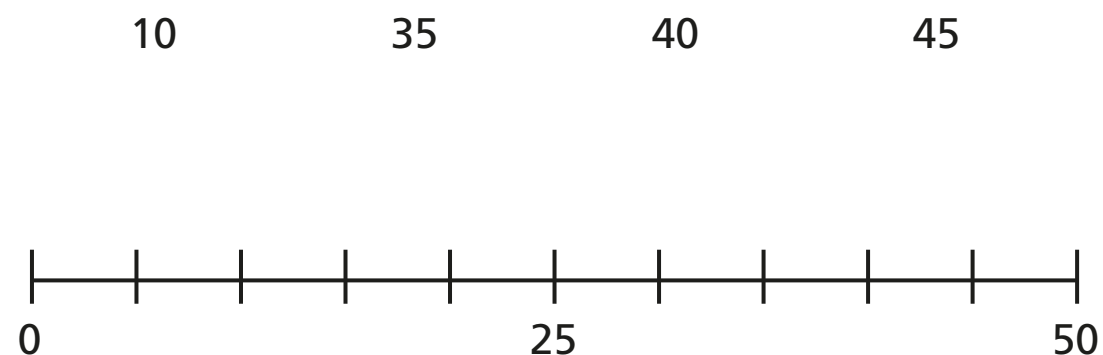
4 Draw an arrow to show where each number belongs on the number line.

a)

5 30 45 80

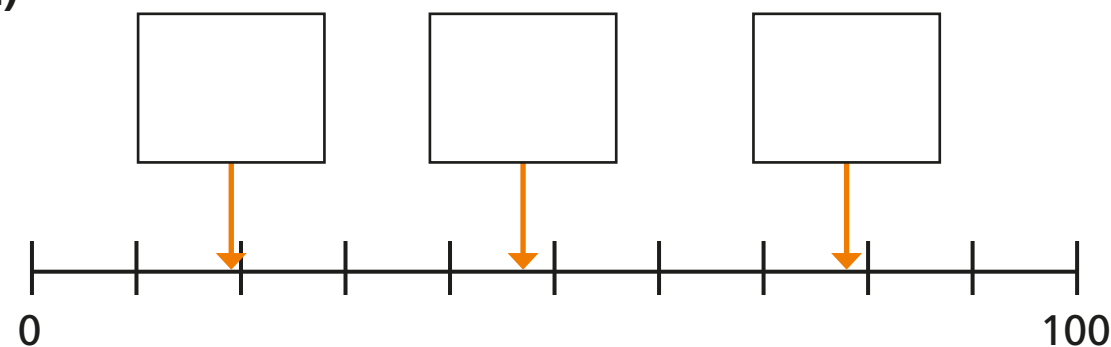


b)

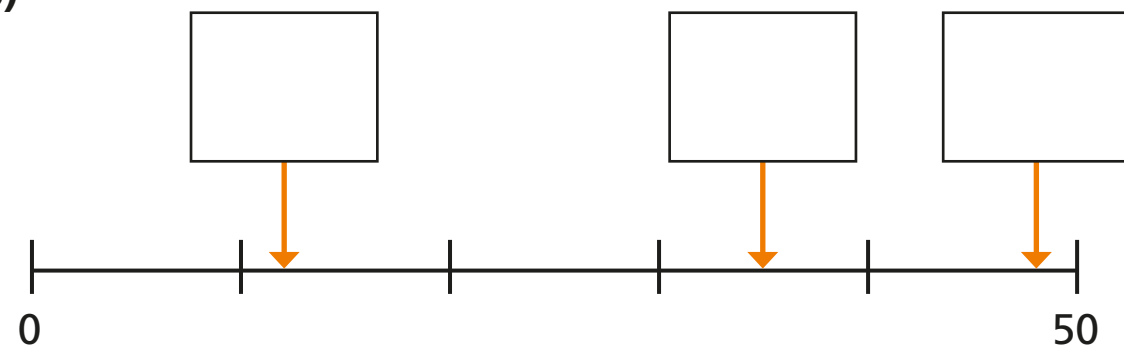


5 Estimate the numbers the arrows are pointing to.

a)

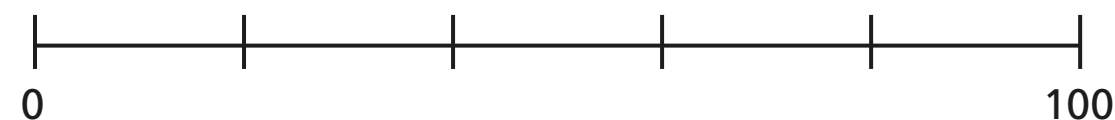


b)

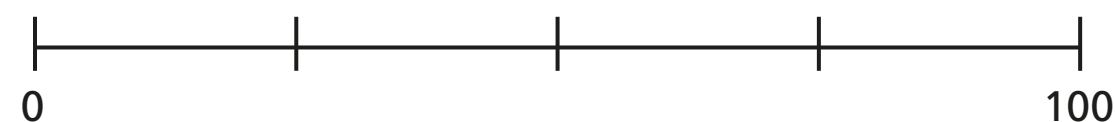


6 Complete the number lines.

a)

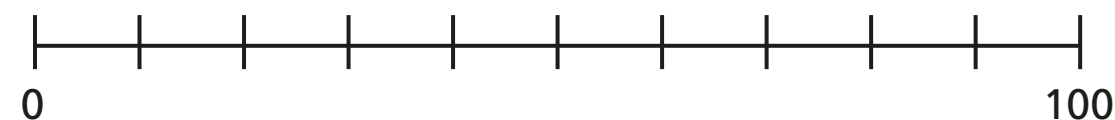


b)



7 Estimate where these numbers belong on the number line.

27 48 79



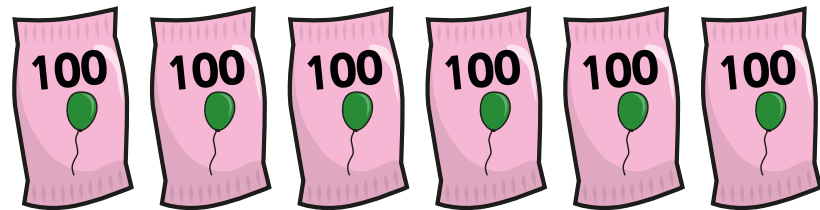
How did you do this? Talk about it with a partner.



Hundreds



1 How many balloons are there?

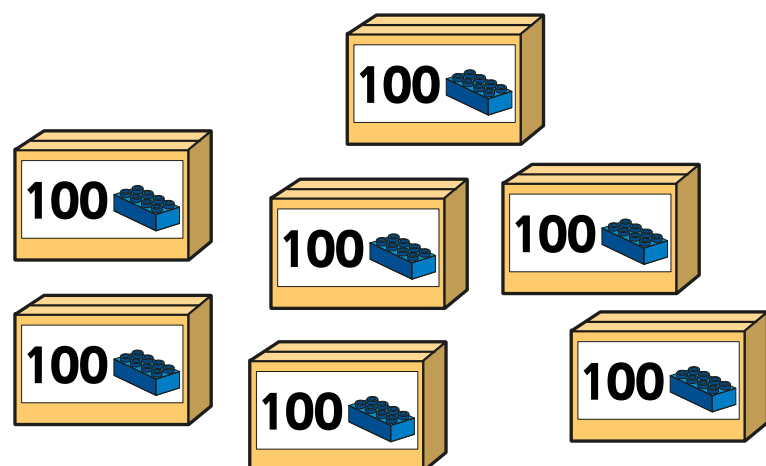


Write your answer in numerals and words.

There are balloons.

There are _____ balloons.

2 How many bricks are there?



There are bricks.

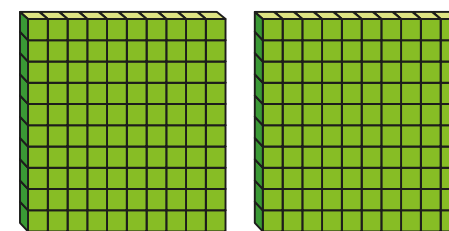
There are _____ bricks.

3 Circle 800 pins.

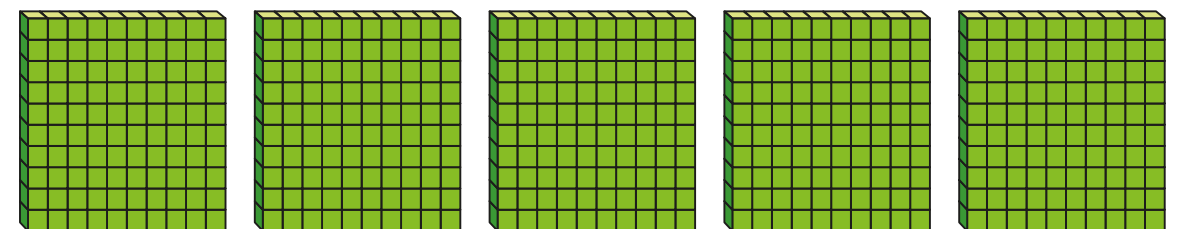


4 What numbers are represented?

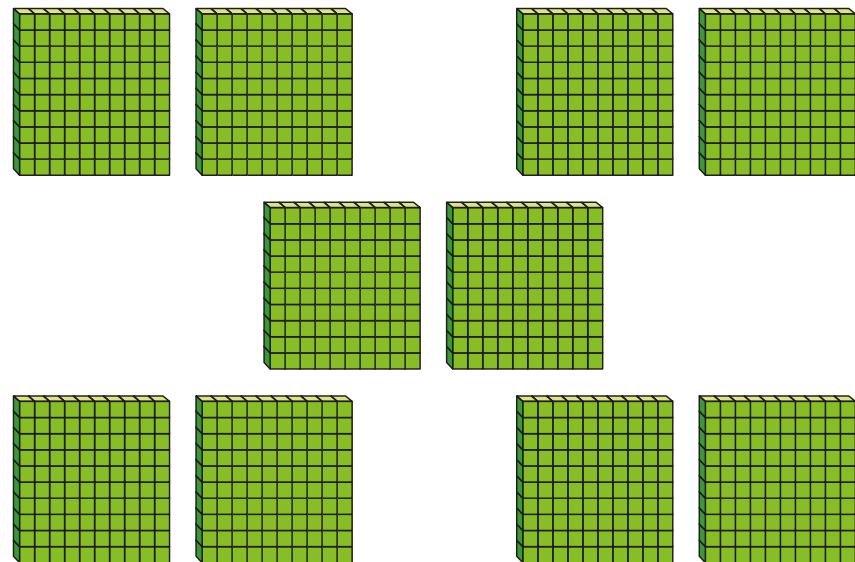
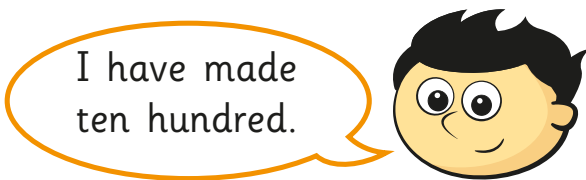
a)



b)



5 Jack makes this number.



Is Jack correct? _____

Write the number a different way.



6 Complete the number tracks.

200	300			600		
-----	-----	--	--	-----	--	--

900		700		500	
-----	--	-----	--	-----	--

7 Rosie starts from zero and counts up in 100s.

Circle the numbers that she says.

500	50	900	70
1,000	100	99	10

8 Amir needs 700 counters.
There are 100 counters in each bag.
Amir has 400 counters.

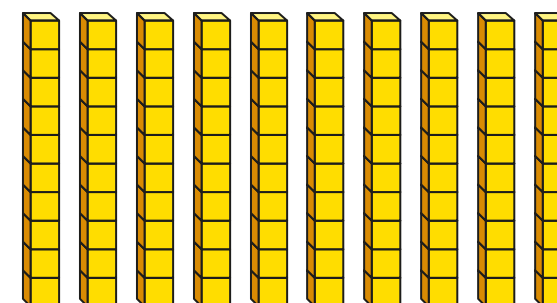


How many more bags of counters does he need?

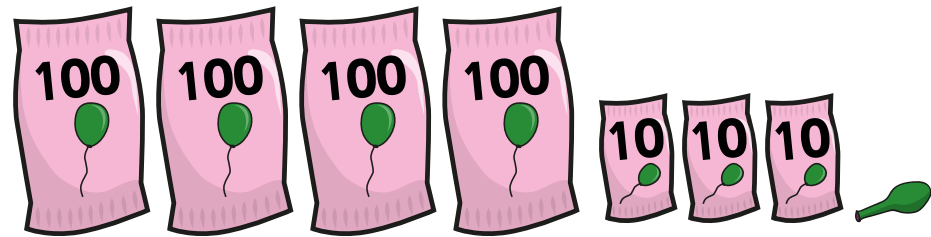
Amir needs more bags of counters.

How did you work this out? Talk to a partner.

9 Is 100 represented here? Talk about it with a partner.

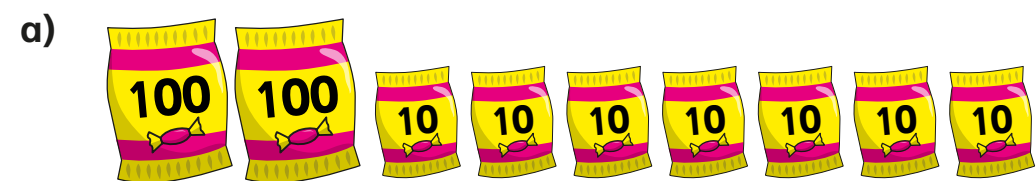


1 How many balloons are there?

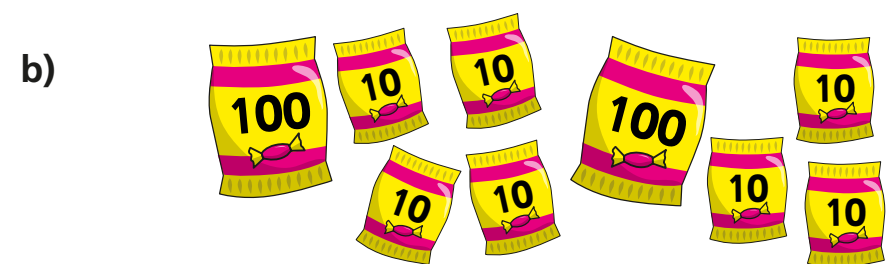


There are balloons.

2 How many sweets are there?



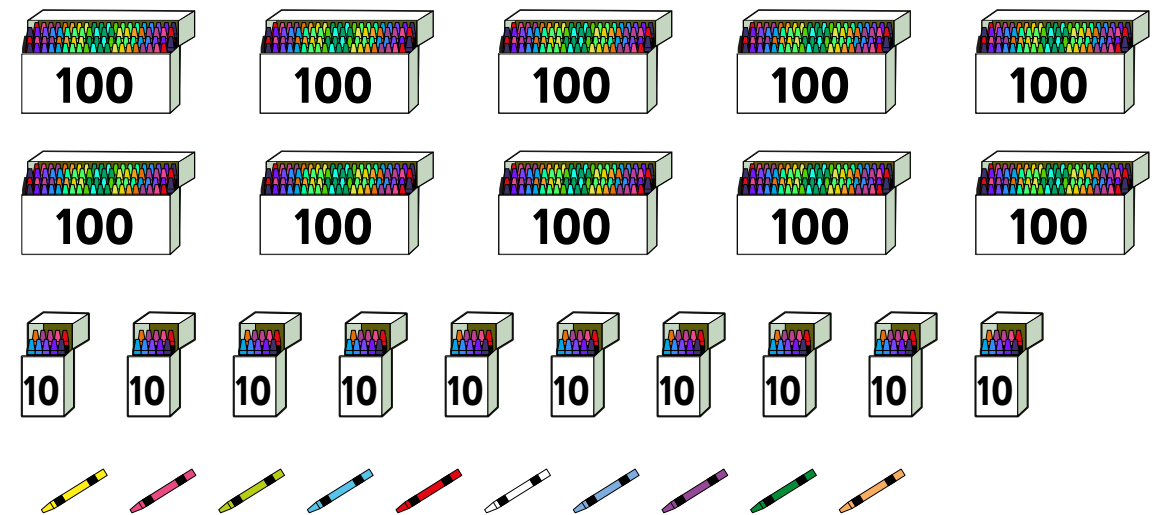
There are sweets.



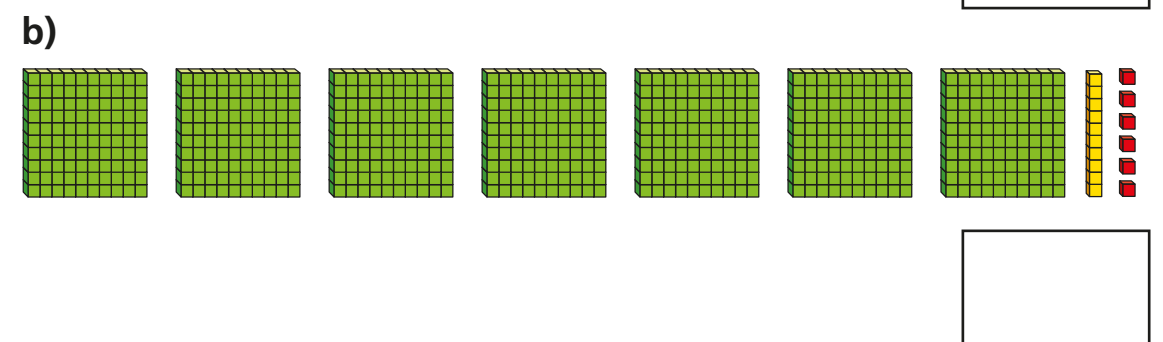
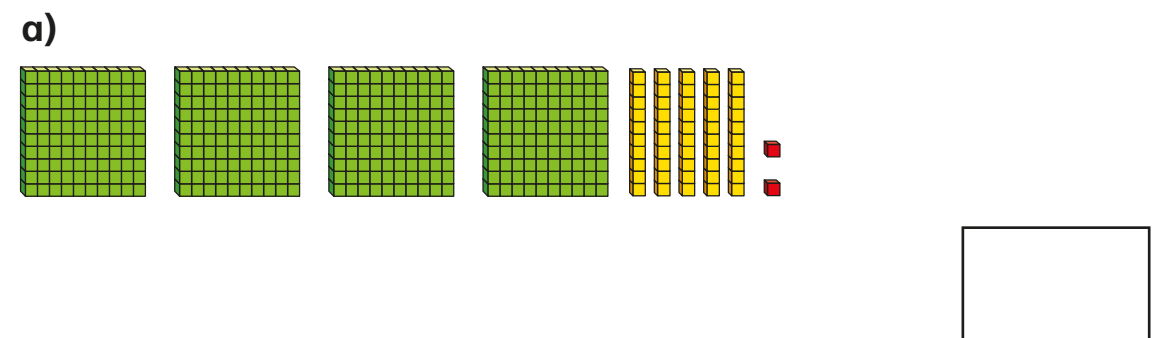
There are sweets.

c) What is the same and what is different about a) and b)?
Talk to a partner about your answer.

3 Circle 316 crayons.



4 What numbers are represented?

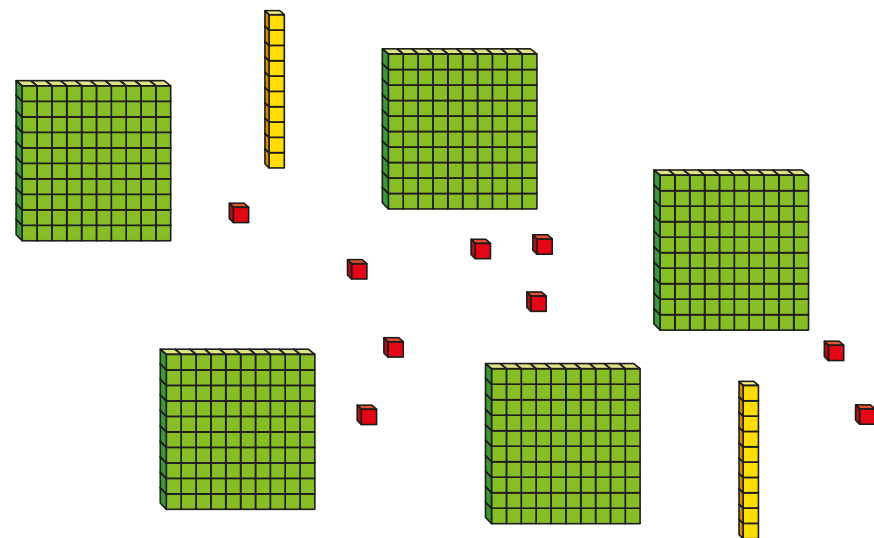


5 Use base 10 to make these numbers.

a) 426 b) 922 c) 307

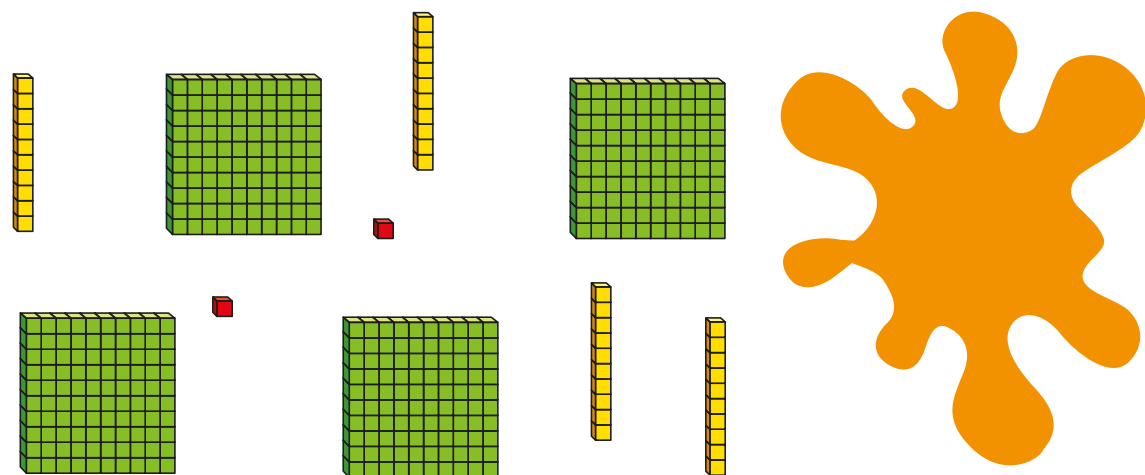
Are your answers the same as your partner's answers?

6 What number has Alex made?



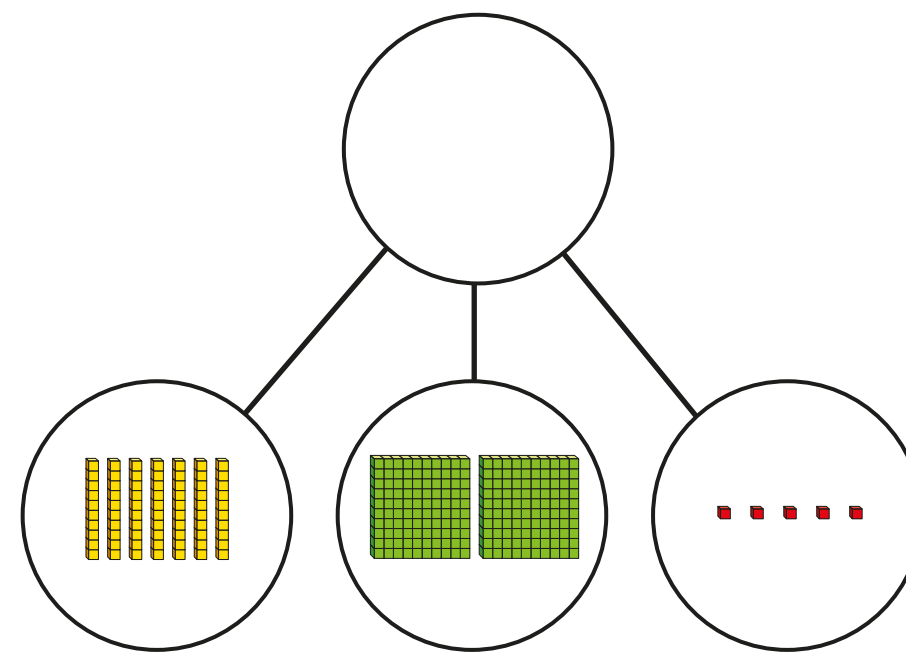
Alex has made

7 Dexter is making the number 573 with base 10

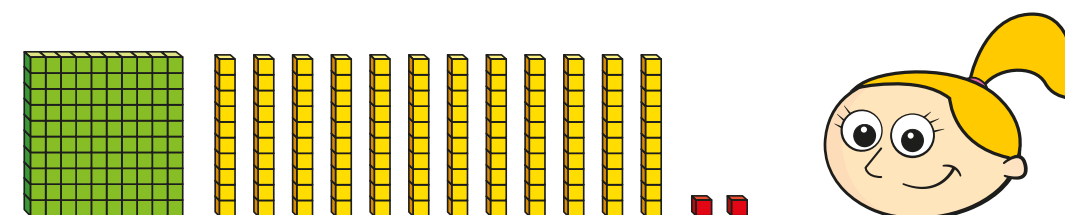
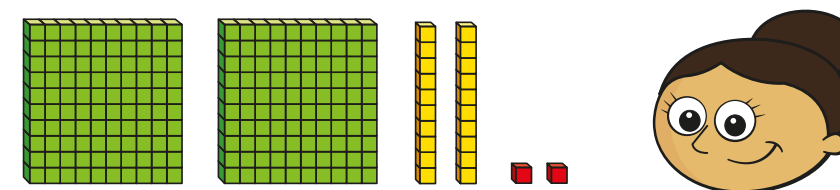


Draw the missing pieces of base 10

8 Write a numeral to complete the part-whole model.



9 Dora and Eva have each made a number.



Dora and Eva have made the same number.

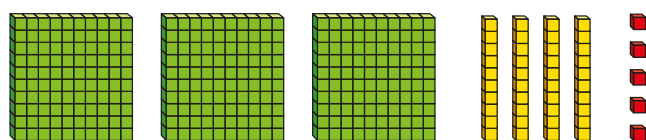
Is this true or false? _____

How do you know?

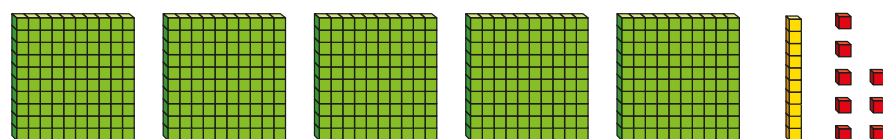
100s, 10s and 1s (1)

1 What numbers are represented?

a)



b)



c)

Hundreds	Tens	Ones

2 Make each number using base 10

a) 426

b) 150

c) five hundred and thirty-two



3 Write each number in numerals.

a) four hundred and sixty-nine

b) three hundred and thirty-seven

c) nine hundred and fifty

d) eight hundred and three

4 Complete the sentences.

a) 348 is equal to 3 hundreds, tens and ones.

b) 673 is equal to hundreds, tens and ones.

c) 792 is equal to hundreds, 9 _____ and 2 _____.

d) 308 is equal to 3 _____ and 8 _____.

e) is equal to 7 hundreds, 5 tens and 1 one.

f) is equal to 8 hundreds and 2 ones.



5 Complete the number sentences.

a) $432 = 400 + 30 + \boxed{}$

$435 = 400 + \boxed{} + \boxed{}$

$437 = \boxed{} + \boxed{} + \boxed{}$

b) $520 = 500 + \boxed{}$

$502 = 500 + \boxed{}$

c) $392 = 300 + 90 + \boxed{}$

$392 = 92 + \boxed{}$

$392 = 2 + \boxed{}$

6 What is the value of the 3 in each number?

- a) 137 _____
- b) 390 _____
- c) 213 _____
- d) 375 _____

7 a) Mo has 3 digit cards.



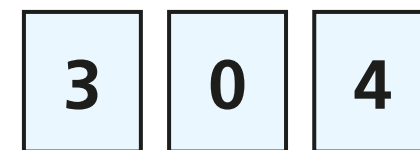
He makes a 3-digit number.

His number has 9 tens.

What numbers could Mo have made?

or

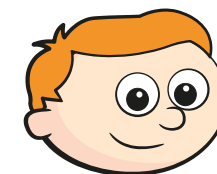
b) Aisha has some different digit cards.



Aisha makes a 3-digit number.

Write all the numbers that Aisha could make.

8 Ron is thinking of a number.



My number has
an even number of tens.
There are 2 more hundreds
than there are ones.
One of the digits is a 6

Circle the numbers that Ron could be thinking of.

286

462

385

614

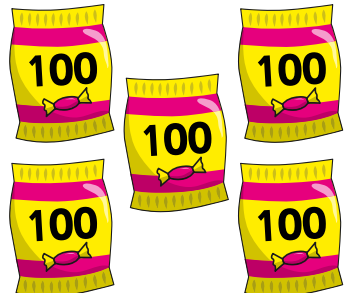
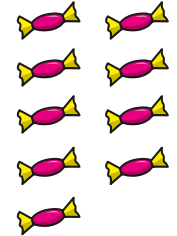
604

328



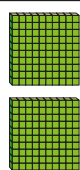

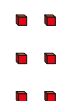
100s, 10s and 1s (2)

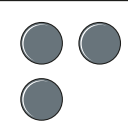

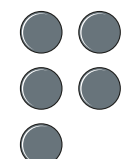
1 How many sweets are there?

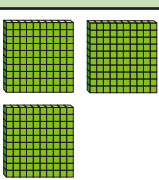
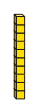

Hundreds	Tens	Ones
		


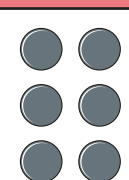
There are sweets.

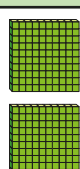
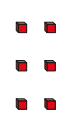
2 Match the place value charts.


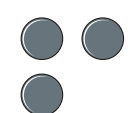
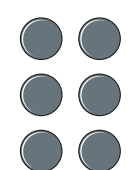
H	T	O
		

H	T	O
		

H	T	O
		

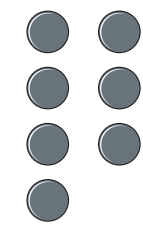
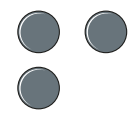
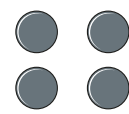
H	T	O
		

H	T	O
		

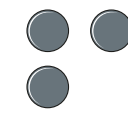
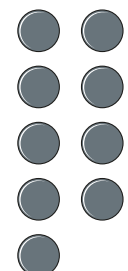

H	T	O
		

3 What numbers are represented?



a)

Hundreds	Tens	Ones
		

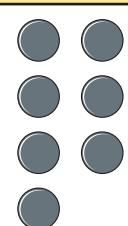
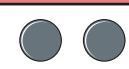
b)

Hundreds	Tens	Ones
		

c)

Hundreds	Tens	Ones
		

d)

Hundreds	Tens	Ones
		

- 4 Make these numbers using counters.
Draw the counters on the place value charts.

a) 215

Hundreds	Tens	Ones

b) $300 + 70 + 8$

Hundreds	Tens	Ones

c) two hundred and seventy

Hundreds	Tens	Ones

- 5 Teddy is making numbers using 10 counters.

Hundreds	Tens	Ones

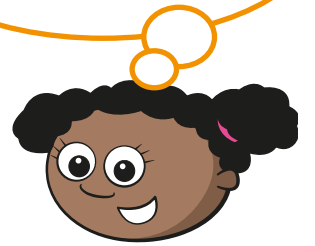
- a) Draw 10 counters on the place value chart to show that Teddy can make the number 217
b) Write two more numbers Teddy can make.

- c) What is the greatest number Teddy can make?



- 6 Whitney is thinking of a number.

My number has 5 hundreds, 3 ones and 8 tens.



The number Whitney is thinking of is 538

Is this statement true or false?

Explain how you know.

- 7 Dani uses counters to make this number.

Hundreds	Tens	Ones
● ● ● ●	●	● ● ●

- a) What number has Dani made?

- b) Dani moves two of the counters.

Which of these numbers can she make?

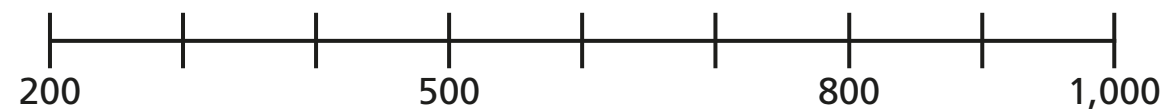
Circle your answer.

233 613 800 215 224

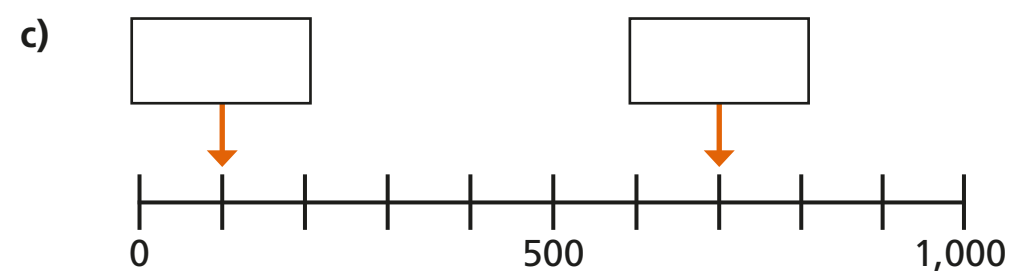
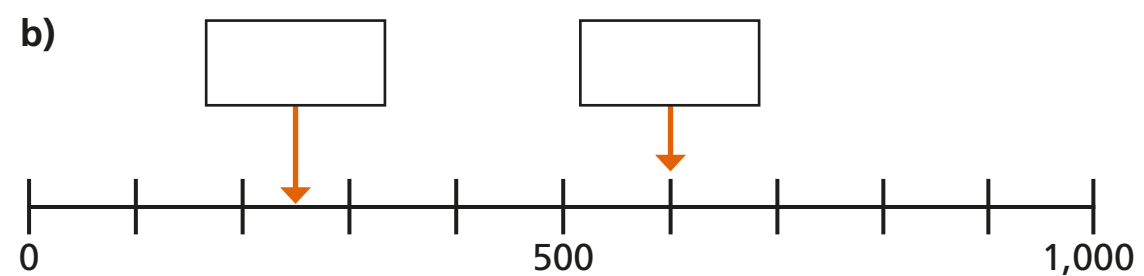
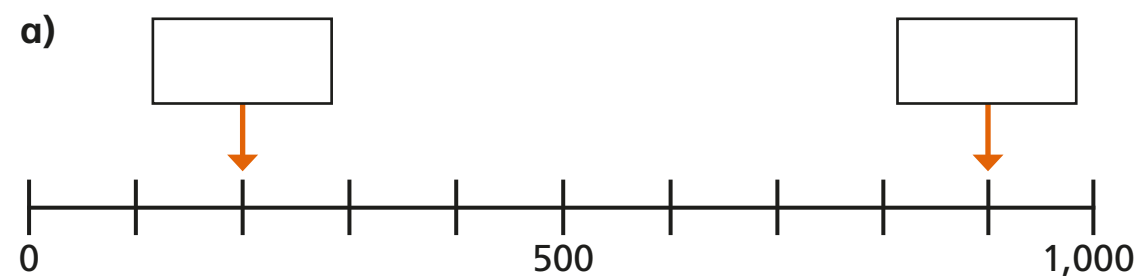


Number line to 1,000

1 Complete the number line.

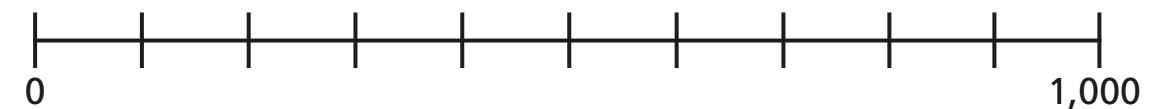


2 What numbers are the arrows pointing to?

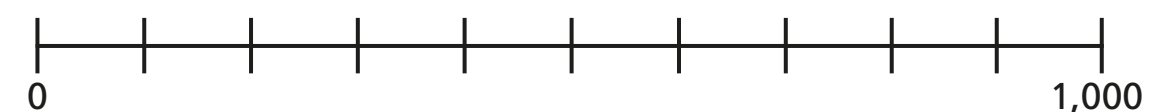


3 Write these numbers on the number line.

400 150 600 990

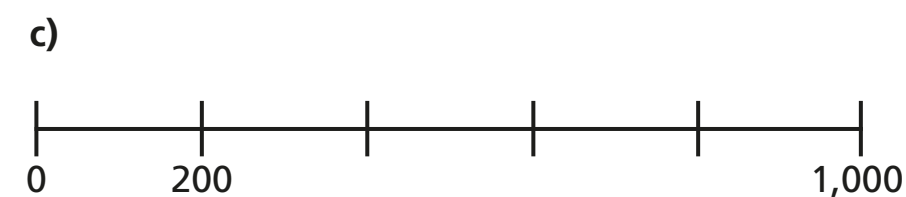
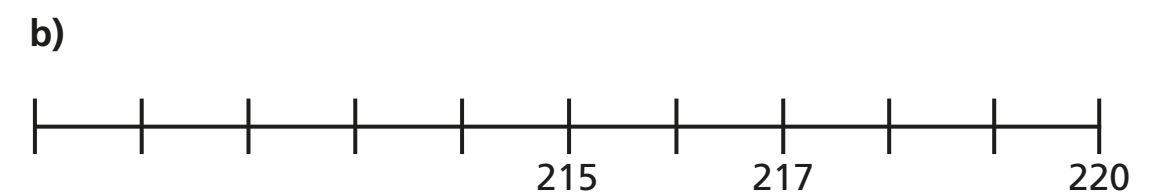
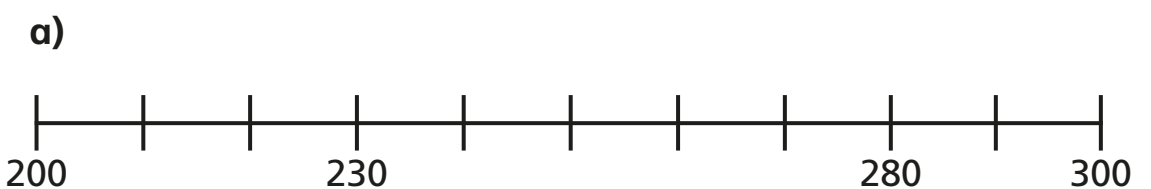


4 Here is a number line from 0 to 1,000



Label 500 and 750 on the number line.

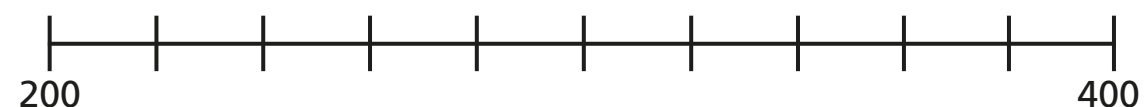
5 Complete the number lines.



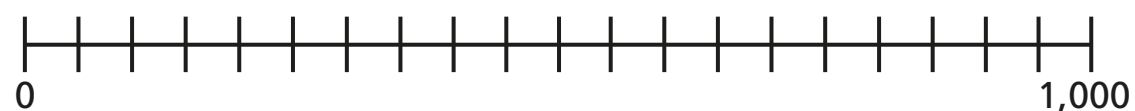
- 6 a) Label 470 on the number line.



- b) Label 280 on the number line.



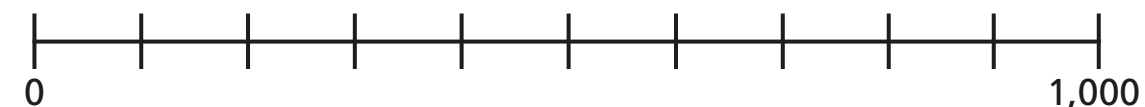
7



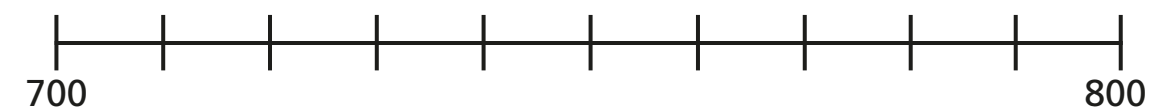
Is Alex correct? How do you know?

- 8 Draw an arrow to 785 on each number line.

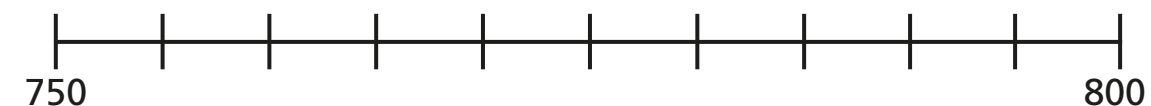
a)



b)

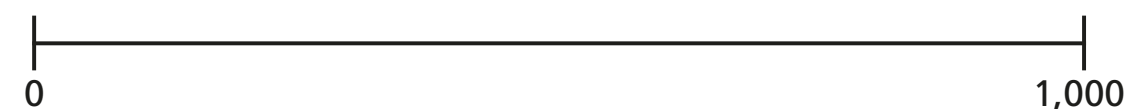


c)



- 9 Estimate where these numbers go on the number line.

300 750 30 995



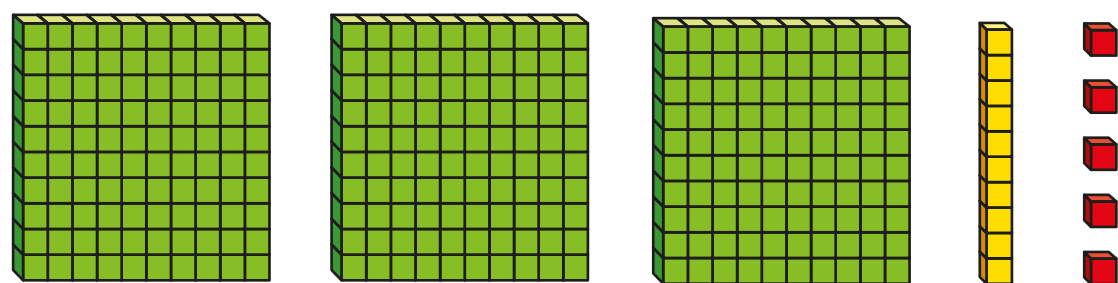
How did you do this? Talk about it with a partner.



Find 1, 10, 100 more or less



1 Annie makes a number using base 10



a) What number has Annie made?

Annie has made the number

b) What is 100 more than Annie's number?

100 more than Annie's number is

c) What is 10 more than Annie's number?

10 more than Annie's number is

d) What is 1 more than Annie's number?

1 more than Annie's number is

2 What number is represented?

Hundreds	Tens	Ones

The number represented is

a) What is 100 more than the number?

What is 10 more than the number?

What is 1 more than the number?

b) What is 100 less than the number?

What is 10 less than the number?

What is 1 less than the number?

3 What is 100 more than each of these numbers?

a) 700

c) 590

b) 385

d) 47

4 What is 10 more than each of these numbers?

a) 362	<input type="text"/>	c) 703	<input type="text"/>
b) 180	<input type="text"/>	d) 695	<input type="text"/>

5 What is 10 less than each of these numbers?

a) 789	<input type="text"/>	c) 300	<input type="text"/>
b) 245	<input type="text"/>	d) 404	<input type="text"/>

6 Complete the sentences.

a) 100 more than 763 is

b) is 100 more than 765

c) is 100 less than 503

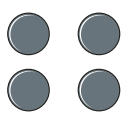

d) 1 less than 300 is

e) 10 less than 109 is

f) is 10 less than 972

g) is 1 less than 699

7 Tom makes a number on a place value chart, but one of the counters slips off the chart.

Hundreds	Tens	Ones
		

What could Tom's number have been?

8 Complete the table.

100 more	10 more	1 more	number	1 less	10 less	100 less
			473			
398						
					890	

9 Kim thinks of a number.

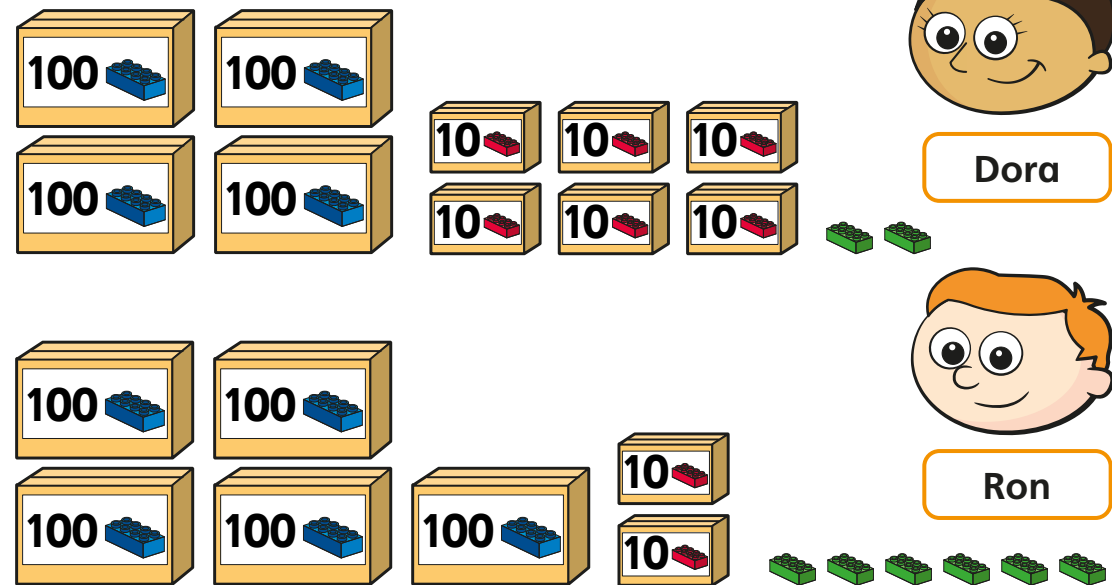
100 less than Kim's number is 900

What is 10 less than Kim's number?



Compare objects

1 Dora and Ron each have some building bricks.



a) How many bricks does Dora have?

Dora has bricks

b) How many bricks does Ron have?

Ron has bricks.

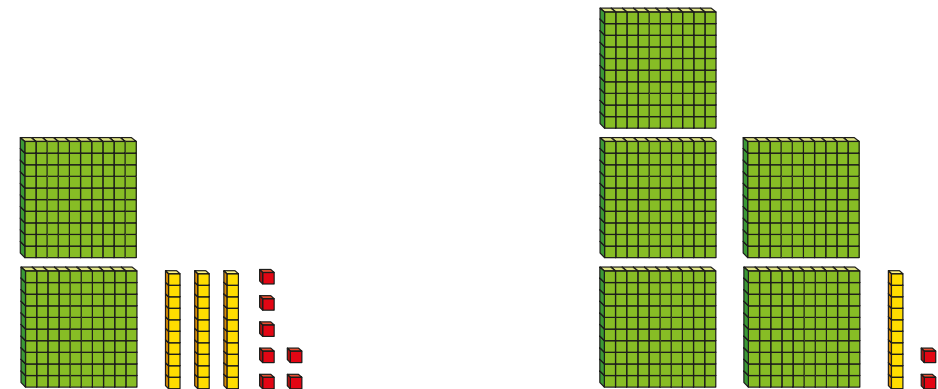
c) Who has the greater number of bricks?

_____ has the greater number of bricks.

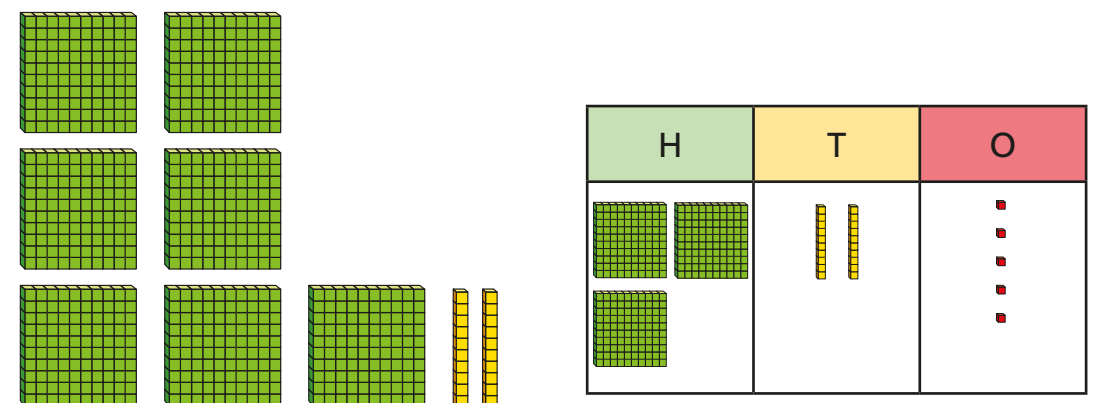
How do you know?

2 Tick the greater number in each pair.

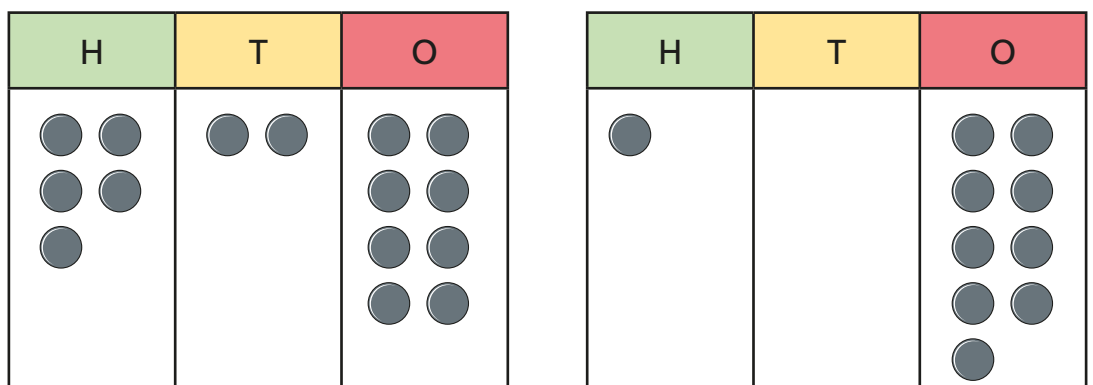
a)



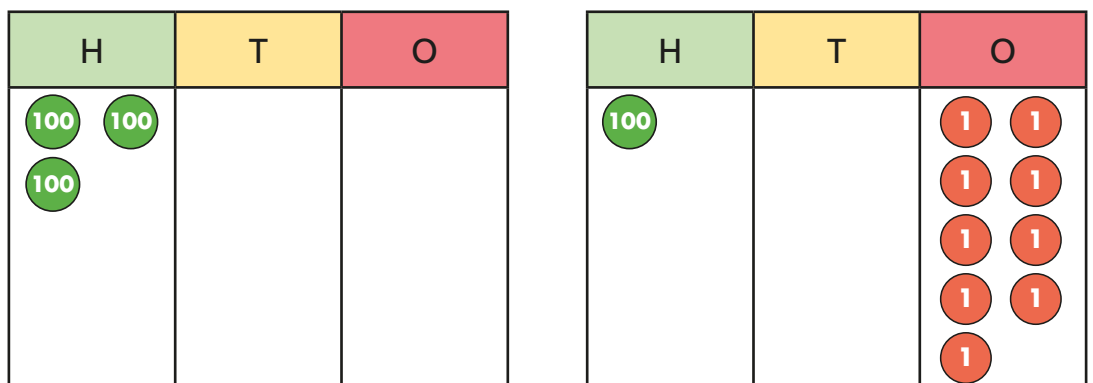
b)



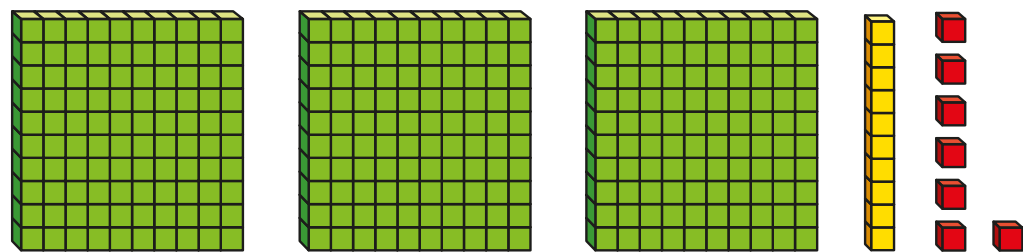
c)



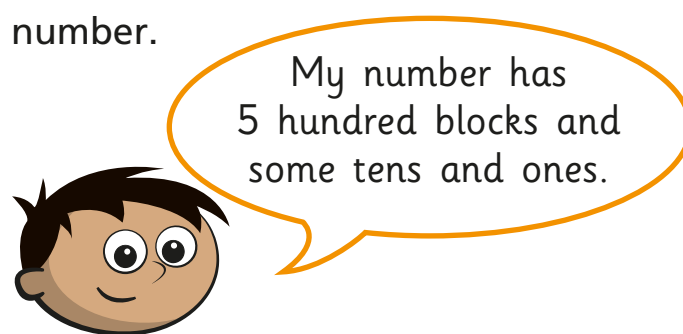
d)



- 3 Esther makes a number using base 10



Amir also makes a number.



Whose number is greater? Circle your answer.

Esther

Amir

can't tell

Explain how you know.

- 4 Use 8 pieces of base 10 to make a number.

Compare answers with a partner.

Who has made the greater number?



- 5 Write $>$, $<$ or $=$ to compare the numbers.

a)

H	T	O
3 flats	2 rods	1 unit

\bigcirc

H	T	O
2 flats	4 rods	2 units

b)

H	T	O
1 flat	2 rods	8 units

\bigcirc

H	T	O
2 flats	1 rod	0 units

- 6 Draw 3 more counters to make the statement correct.

H	T	O
4 units	1 rod	8 units

$<$

H	T	O
4 units	0 rods	5 units

- 7 Annie uses 10 counters to make a number greater than 600 but less than 700

What numbers could Annie have made?

Can you find all the possible answers?



Compare numbers



1 Which number is smaller? Tick your answer.

100s	10s	1s
3	5	9

100s	10s	1s
7	1	2

2 Which number is greater? Tick your answer.

100s	10s	1s
8	0	5

100s	10s	1s
8	1	7

3 Tick the greater number.

100s	10s	1s
0	3	7

100s	10s	1s
3	7	0

4 Circle all the numbers greater than 350

700 396 299 167 342 400



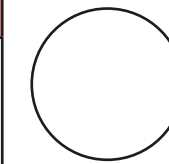
5 Circle all the numbers less than 718

634 800 715 720 66 1,000

6 Write $>$, $<$ or $=$ to make the statements correct.

a)

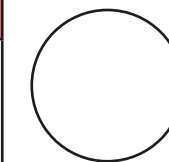
100s	10s	1s
2	9	5



100s	10s	1s
3	7	2

b)

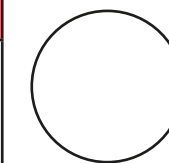
100s	10s	1s
4	0	1



100s	10s	1s
4	2	6

c)

100s	10s	1s
2	5	7



100s	10s	1s

d) Which place value columns did you have to compare in part c)?



7 Write the missing phrase.

is less than

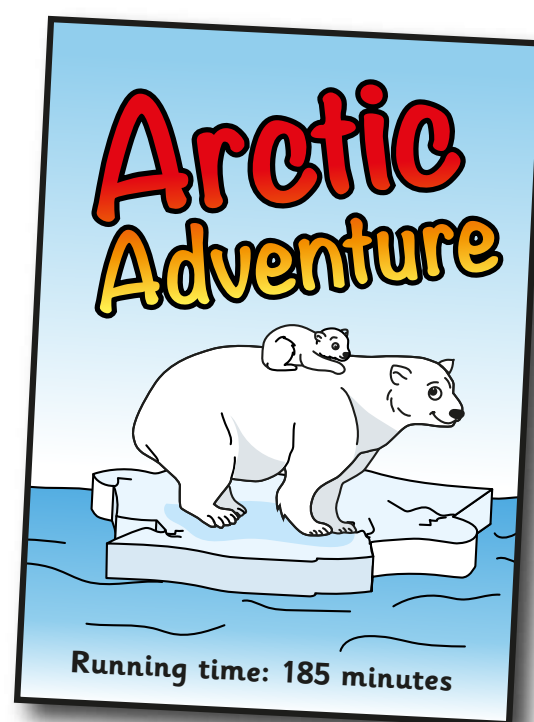
is greater than

a) 328 _____ 344

b) 916 _____ 490

c) 510 _____ 517

8 There are two films on at the cinema.



Which film lasts the longest?

_____ lasts the longest.

9 Write $<$, $>$ or $=$ to make the statements correct.

a) 176 281

e) 1,000 699

b) 397 452

f) 820 90

c) 757 747

g) 392 $300 + 90 + 2$

d) 812 810

h) 392 $300 + 90 + 3$

10 What could the missing digits be?

a) 621 is greater than _24

b) $500 < _54$

621 is greater than 6_4

$500 < 5_2$

621 is greater than 62_

$500 < 53_$

11 Write all the possible missing digits.

a) 778 is less than 7_4

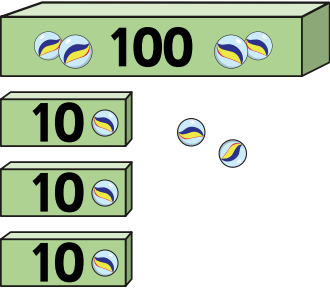
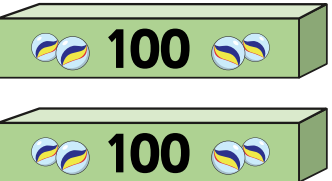
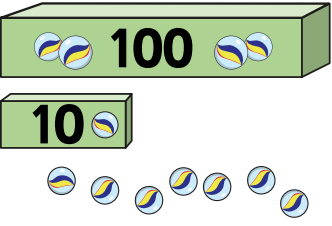
b) 778 is less than 7_9

c) 778 is less than 77_



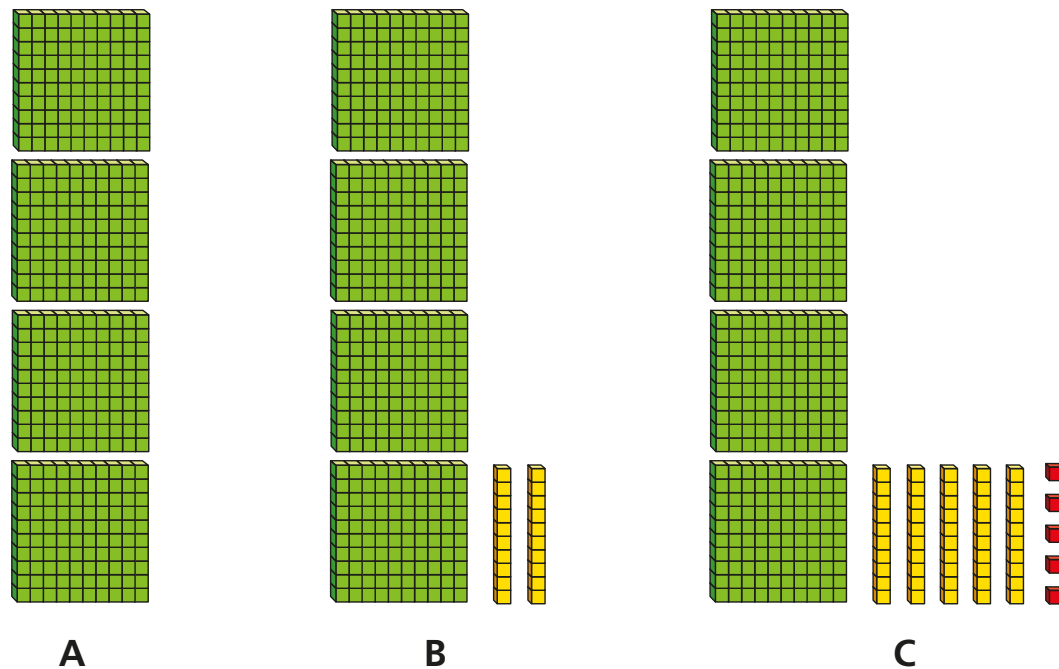
Ordering numbers

1 Who has the greatest number of marbles?

Mo	Tommy	Dora
		

_____ has the greatest number of marbles.

2 Which is the smallest number: A, B or C? Circle your answer.



3 Circle the greatest number in each list.

a) 250 400 130 290

b) 315 390 326 305

c) 718 712 710 719 716

d) 435 348 438 84

4 Write each list of numbers in order.
Start with the smallest number.

a) 412 718 429 405

b) 73 99 200 620

c) 1,000 595 509 95

5 Write two numbers that are greater than 644 and less than 652

- 6 a) Write the weights of the boxes in order.
Start with the lightest box.



- b) These are the heights of the people in one family.

John	Gemma	Brett	Kim	Dani
185 cm	126 cm	175 cm	53 cm	170 cm

Who is the 3rd tallest person?

The 3rd tallest person is _____.

- 7 Here are the prices of 4 bikes.



Write the prices in order. Start with the most expensive bike.

- 8 a) These numbers are in order. One digit is missing from each number.

4__5 46__ __58

smallest

greatest

What could the missing digits be?

- b) These numbers are in order. One digit is missing from each number.

4__5 46__ __58

greatest

smallest

What could the missing digits be?

- 9 Each number has the same digit missing.

__56 < 7__3 < 75__

What could the missing digits be?

Find as many different answers as you can.



Counting in 50s



1 How many cards does each person have?

Filip	Eva	Mo	Aisha

Teddy has 8 packs of cards.

How many cards does Teddy have?

Teddy has cards.

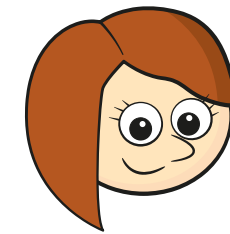
2 Complete the number tracks.

200	250	300					550
-----	-----	-----	--	--	--	--	-----

650		750	800				
-----	--	-----	-----	--	--	--	--

	600	550		450			300
--	-----	-----	--	-----	--	--	-----

3 Rosie is counting up in 50s from 0 to 1,000

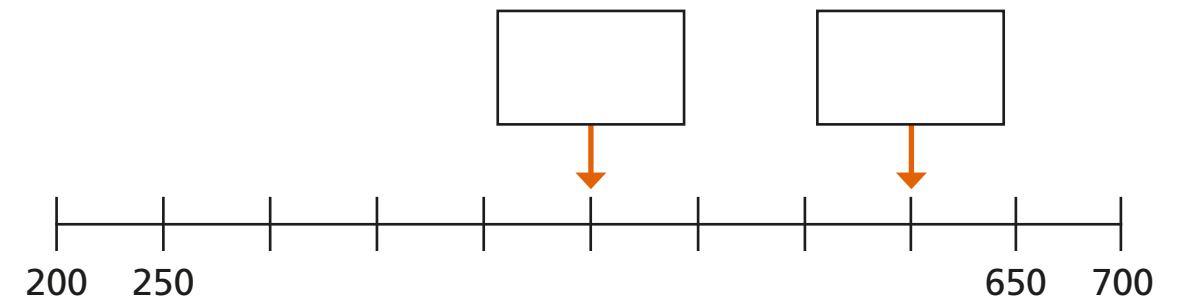


0, 50, 100 ...

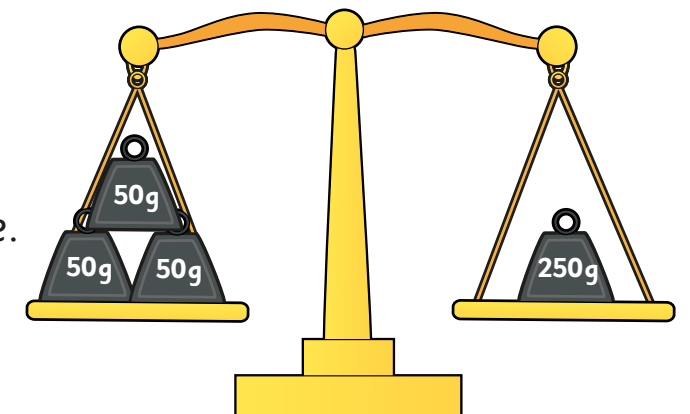
Circle all the numbers that Rosie will say.

505 750 75 350 240 800 950

4 What numbers are the arrows pointing to? Label the arrows.



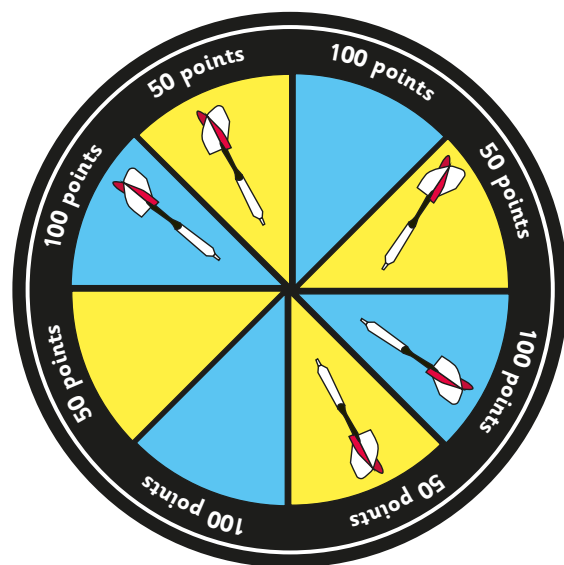
5 Is this true or false?
These scales will balance.



How do you know?

6 Whitney and Dexter are playing darts.

a) Whitney throws 5 darts.



How many points has Whitney scored?

Whitney has scored points.

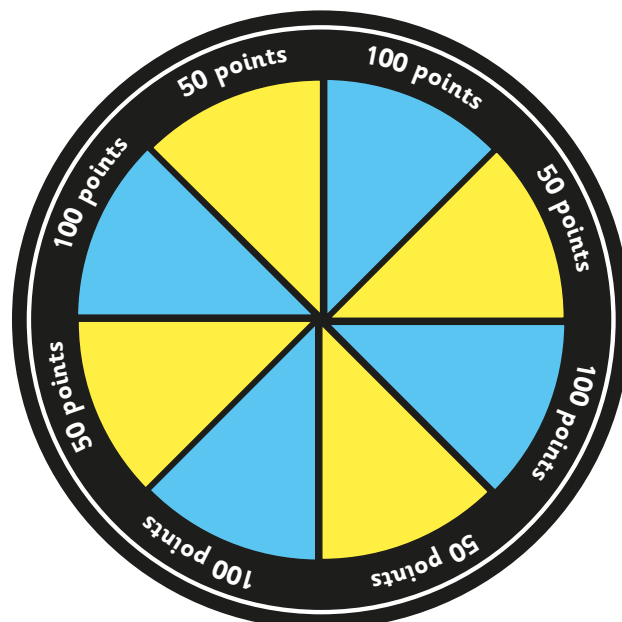
How did you work this out? Talk about it with a partner.



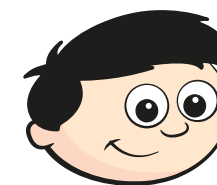
b) Dexter scores 450 points with 5 darts.

Where could his darts have landed?

Draw your answer on the dartboard.



c)



I don't think it is possible to score 450 with 6 darts.

Is Dexter correct?

Explain how you know.

7 How much money is there?



