

Make arrays

1 Circle each row of sweets.



How many rows are there?

There are

rows.

2 Circle each column of apples.

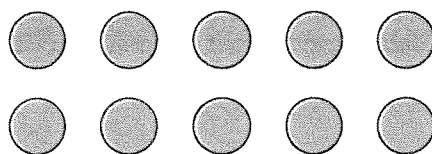


How many columns are there?

There are

columns.

3 Make this array.



Complete the sentences.

a) There are counters in each row.

There are rows.

There are counters altogether.

b) There are counters in each column.

There are columns.

There are counters altogether.

Make your own array.

How many rows are there?

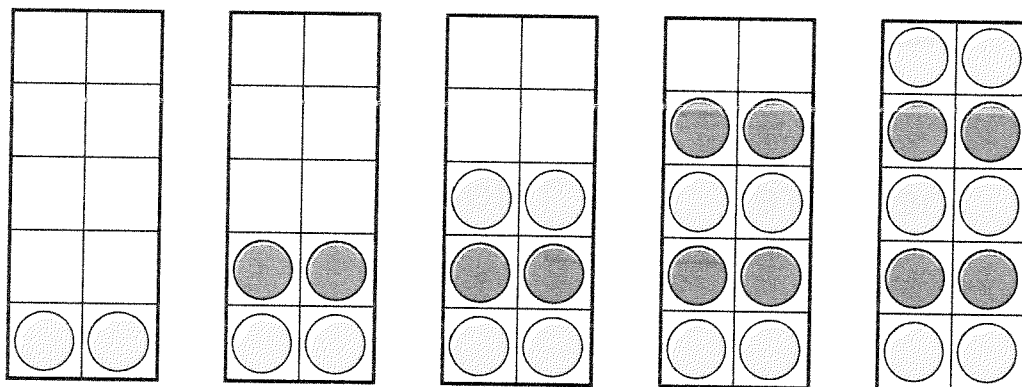
How many columns are there?



Count in 2s

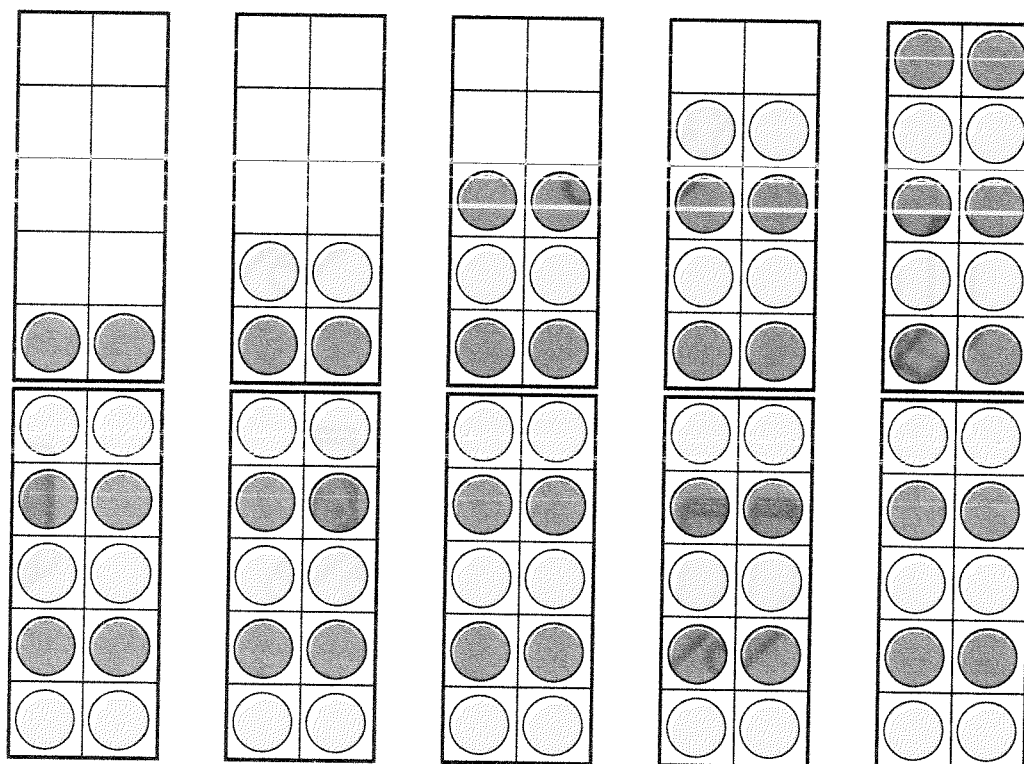
1 What are the numbers?

a)



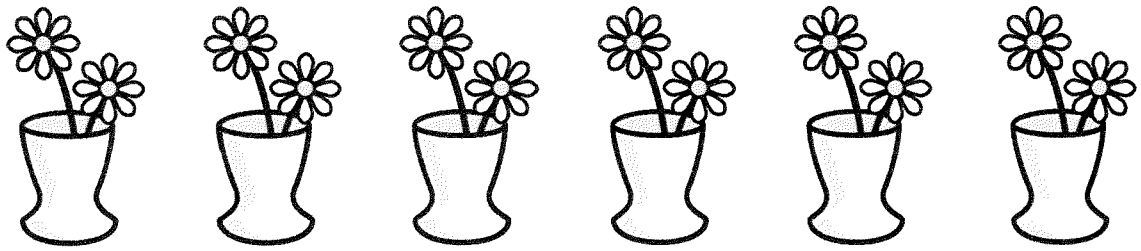
--	--	--	--	--

b)



--	--	--	--	--

2 How many flowers are there?



There are flowers.

3 Circle 14 socks.



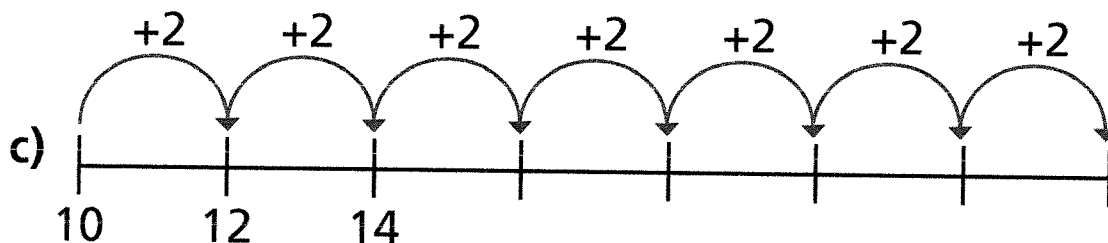
4 Fill in the missing numbers.

a)

0	2	4					
---	---	---	--	--	--	--	--

b)

18	16		12		8		
----	----	--	----	--	---	--	--



5 How far can you count up in 2s?

Work with a partner.

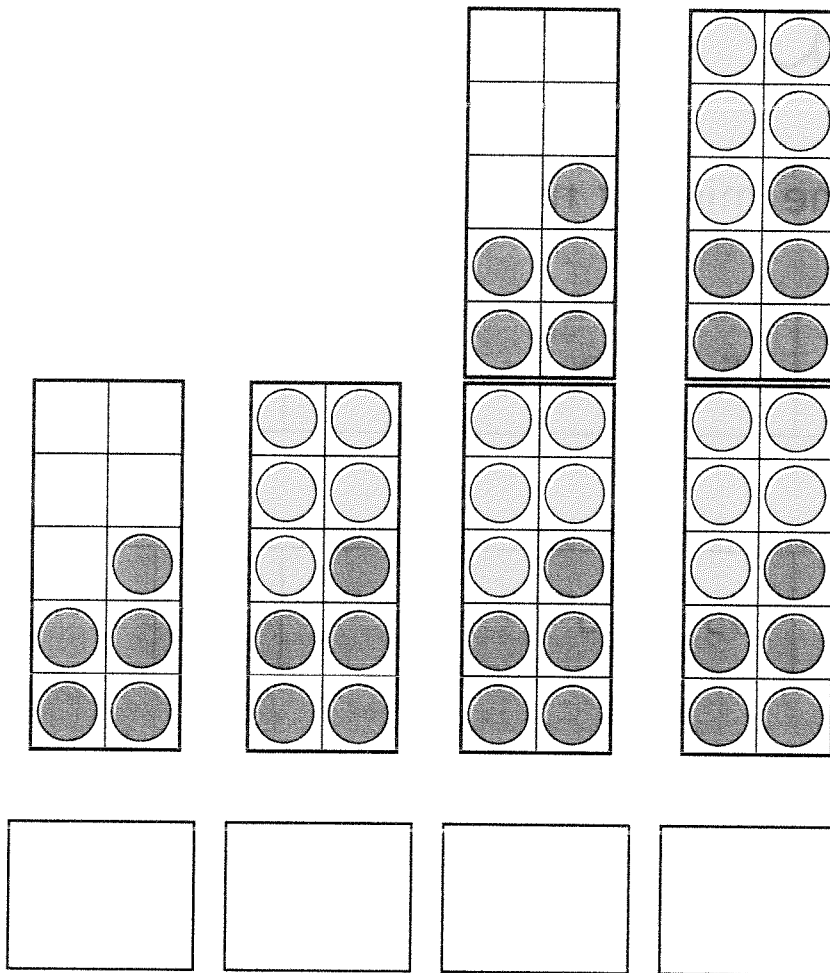
Can you count up to 50 together?

Now try counting down in 2s from 50

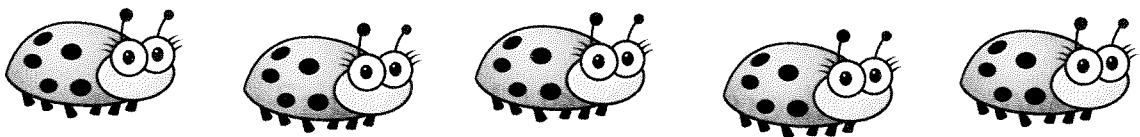


Count in 5s

1 What are the numbers?

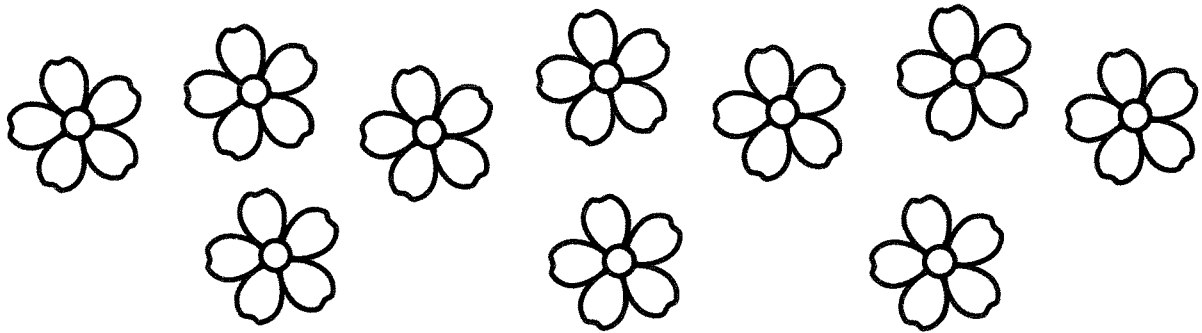


2 How many spots are there in total?



There are spots in total.

- 3 Colour 35 petals.



- 4 Fill in the missing numbers.

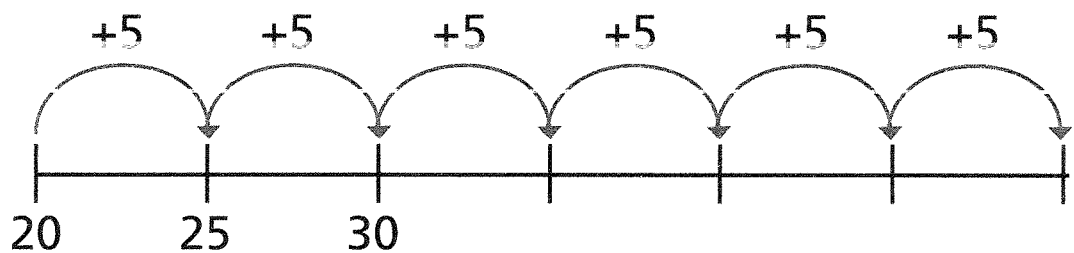
a)

0	5	10					
---	---	----	--	--	--	--	--

b)

50	45	40					
----	----	----	--	--	--	--	--

c)



- 5 Mo counts up to 50 in 5s.

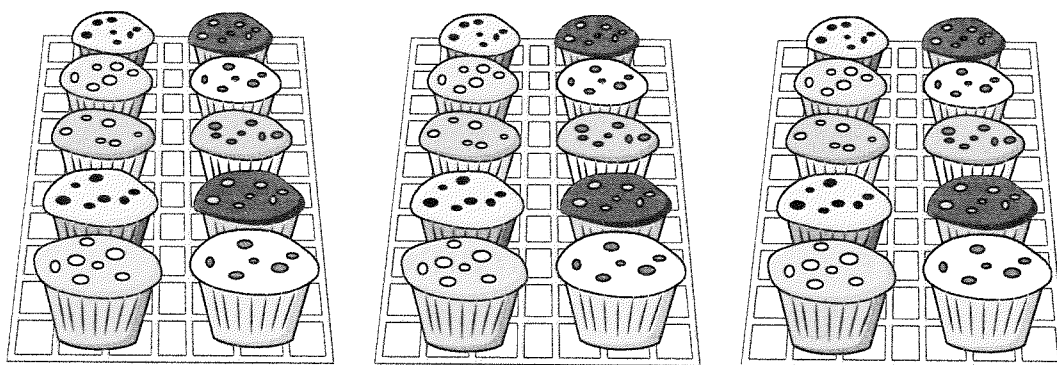
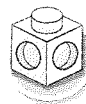
Eva counts up to 50 in 2s.

What numbers do they both say?

Can you spot a pattern?



1 How many muffins are there altogether?

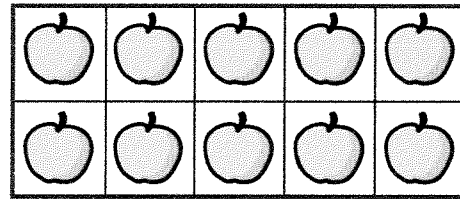
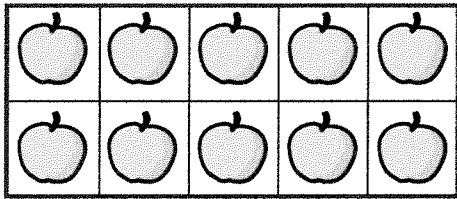
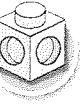


There are muffins on each tray.

There are trays.

There are muffins altogether.

2 How many apples are there altogether?

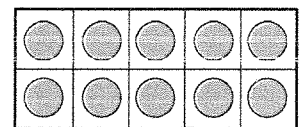
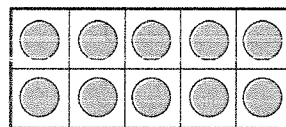
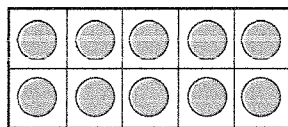
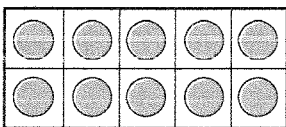
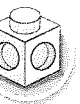


There are apples on each ten frame.

There are ten frames.

There are apples altogether.

3 How many counters are there altogether?



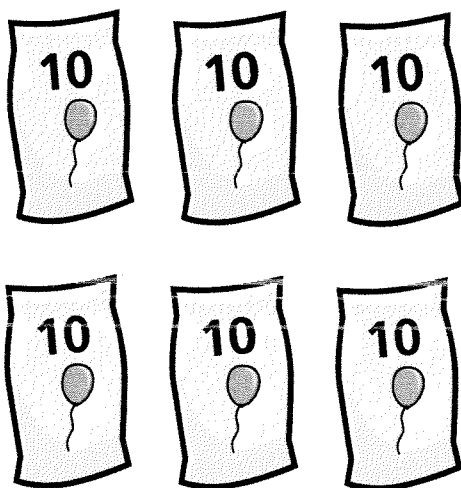
There are counters altogether.

4 Complete the number tracks.

10	20					
----	----	--	--	--	--	--

70		50					
----	--	----	--	--	--	--	--

5 Tom has these balloons.

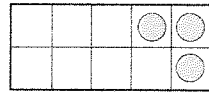


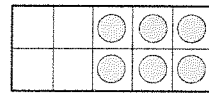
He needs 60 balloons for a party.

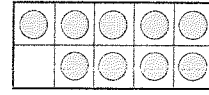
Does Tom have enough balloons? _____

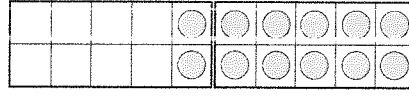
How do you know?

1 What numbers are represented?

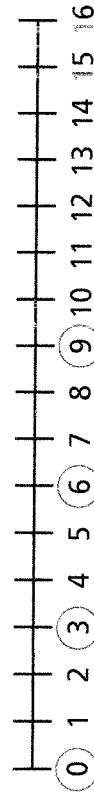








2 Use the number line to help you complete the sentence.

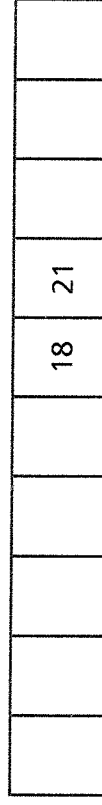
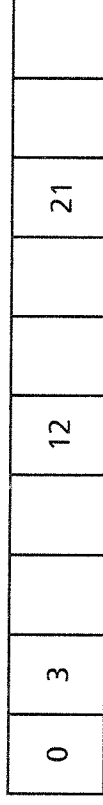


The numbers that are circled are counting up in

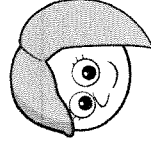
steps of

Draw circles on the number line to continue the pattern.

3 Complete the number tracks.



4 Rosie has 12 stickers.



She collects 3 more stickers each day.

How many stickers will she have in 8 days?

Complete the number track to help you.



Rosie will have stickers in 8 days.

5 Is each statement true or false? Circle your answers.

a) When you count in 3s from zero, you will say the number 9

true

false

b) When you count in 3s from zero, you will say the number 11

true

false

How do you know?

6 Count up in 3s from 3

Colour the numbers you say on the number grid.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

7 a) Ron is counting in 2s from zero.

Complete the number track to show the numbers Ron will say.

--	--	--	--	--	--

b) Kim is counting in 3s from zero.

Complete the number track to show the numbers Kim will say.

--	--	--	--	--	--

c) Whitney adds Ron and Kim's numbers together.

Complete the number track to show the numbers Whitney will say.

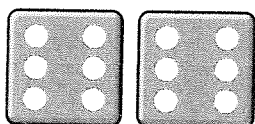
--	--	--	--	--	--

d) What do you notice about Whitney's number pattern?

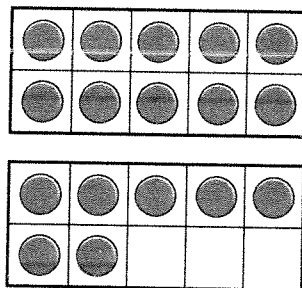


Count forwards and backwards and write numbers to 20 in numerals and words.

1 Match the picture to the numeral.



12

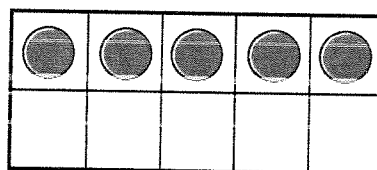
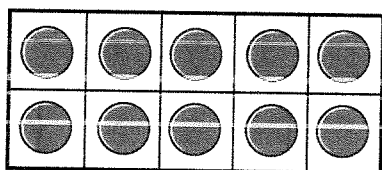


14

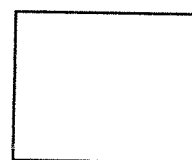


17

2 Here is a number.



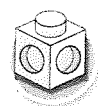
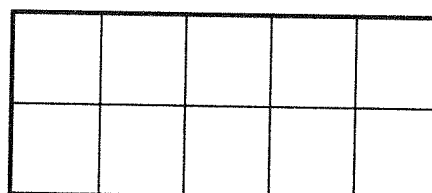
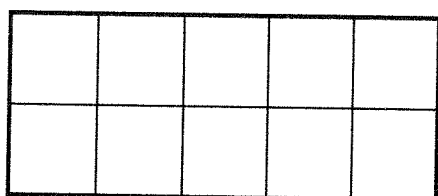
a) What is the number?



b) Use counters and ten frames.

Make this number in a different way.

Draw your counters.



3 Write the numerals in words.

a) 12 _____

b) 13 _____

c) 15 _____

d) 18 _____

e) 20 _____

4 Complete the number tracks.

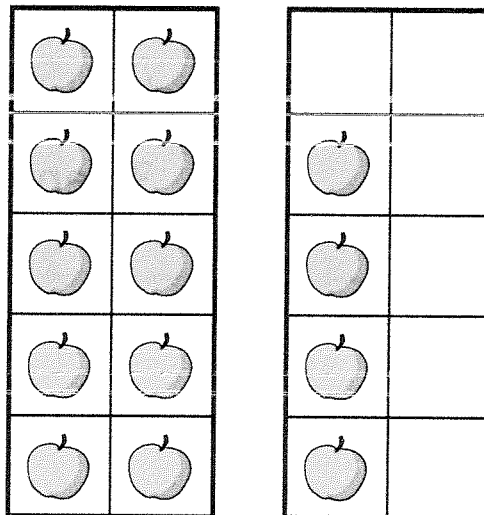
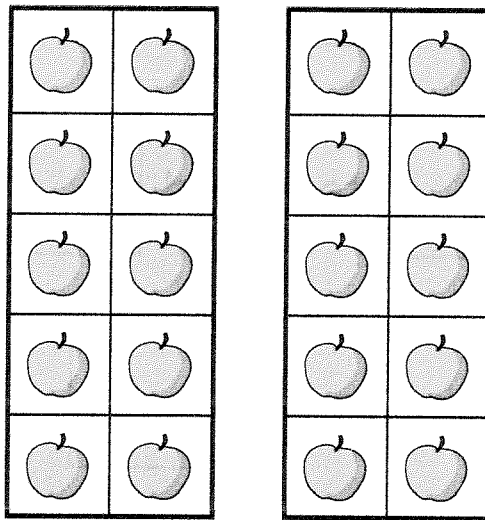
10	11	12							
----	----	----	--	--	--	--	--	--	--

			12	13					
--	--	--	----	----	--	--	--	--	--

18	17								
----	----	--	--	--	--	--	--	--	--

Tens and ones

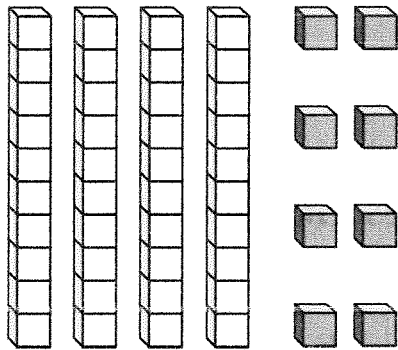
1 How many apples are there?



There are tens and ones.

There are apples.

2 What number is shown?



There are tens and ones.

The number shown is

3 Draw base 10 to show each number.

a) 23

b) 3 tens and 2 ones



4 Complete the number sentences.

a) 1 ten and 8 ones =

b) = 2 tens and 5 ones

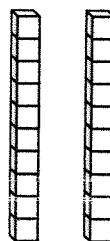
c) 41 = tens and one

d) 37 ones = tens and ones

e) 2 tens and 10 ones =

5 Eva and Jack are making the same number.

Eva's number has these tens.

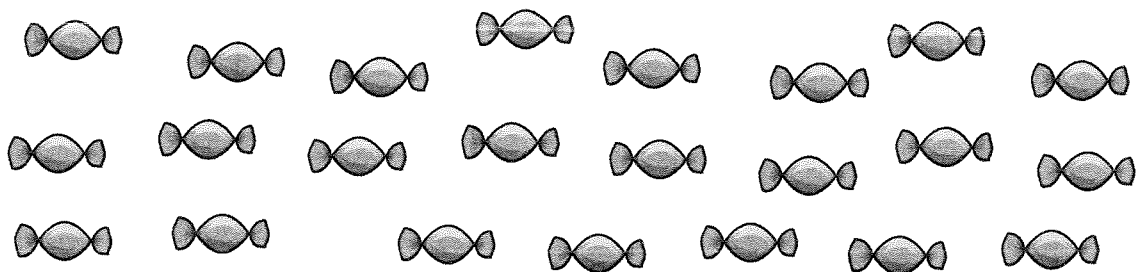


Jack's number has nine ones.

What number are Eva and Jack making?

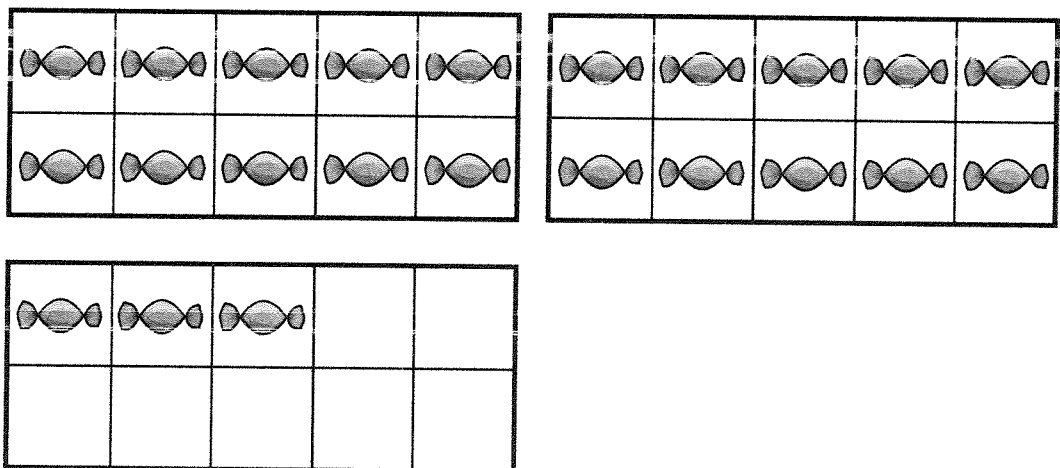


- 1 a) How many sweets are there?



There are sweets.

- b) How many sweets are there?



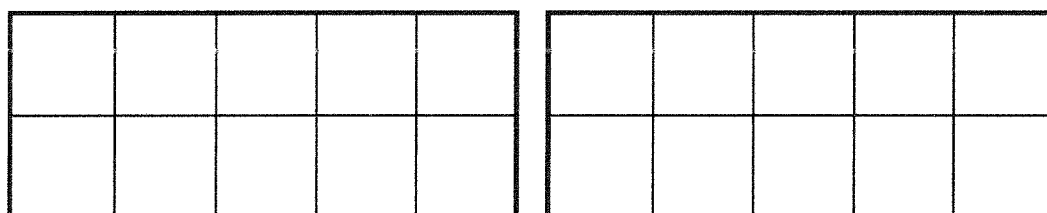
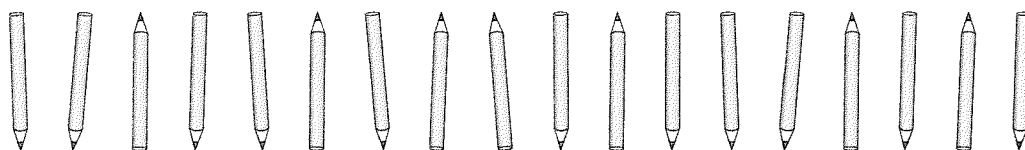
There are sweets.

- c) Which were easier to count? Why?



2

a) Draw counters to show how many pencils there are.



b) Complete the sentence.

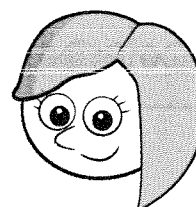
There are pencils.

c) How do you know you have counted them all?



3

I am going to count
from 21 to 36



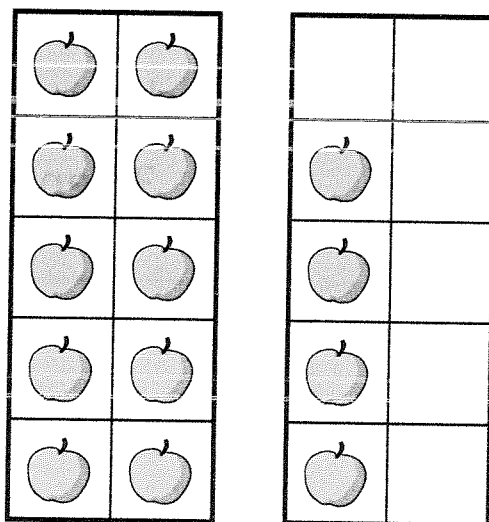
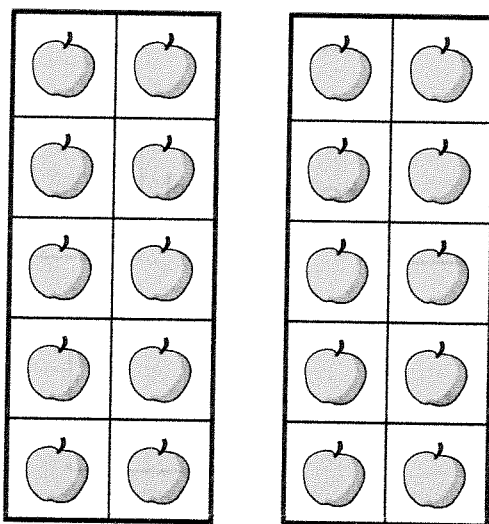
Will Rosie say the number 29? _____

How do you know?



Tens and ones

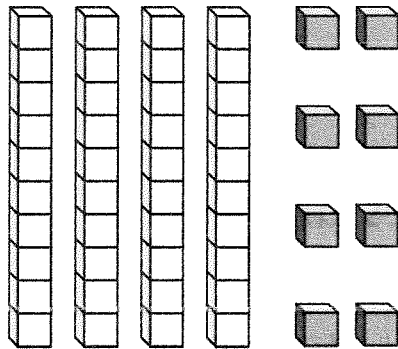
1 How many apples are there?



There are tens and ones.

There are apples.

2 What number is shown?



There are tens and ones.

The number shown is

3 Draw base 10 to show each number.

a) 23

b) 3 tens and 2 ones



4 Complete the number sentences.

a) 1 ten and 8 ones =

b) = 2 tens and 5 ones

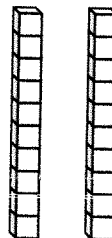
c) 41 = tens and one

d) 37 ones = tens and ones

e) 2 tens and 10 ones =

5 Eva and Jack are making the same number.

Eva's number has these tens.



Jack's number has nine ones.

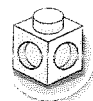
What number are Eva and Jack making?



Compare numbers within 50

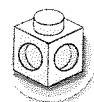
1 Tick the number sentences that are true.

Use cubes or counters to help you.



- a) 12 is more than 13
- b) 33 is less than 41
- c) 2 tens and 8 ones is equal to twenty-eight
- d) $40 + 8$ is more than $30 + 9$
- e) Thirty-one is less than 3 tens

2 Write the missing phrase.



greater than

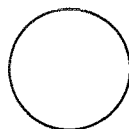
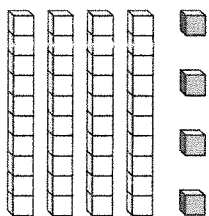
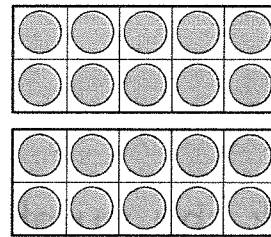
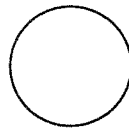
less than

equal to

- a) 22 is _____ 29
- b) 41 is _____ 4 tens
- c) Forty-six is _____ $40 + 3$
- d) $40 + 8$ is _____ one more than 47

3 Write $<$, $>$ or $=$ in each circle.

24



3 tens and 14 ones

4 Complete the table.

Write or draw your answers.

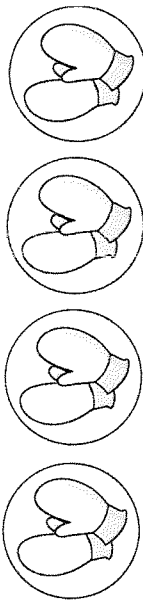


	is more than	
	=	
	>	
	is less than	
	is equal to	

Recognise equal groups

1 Complete the sentences.

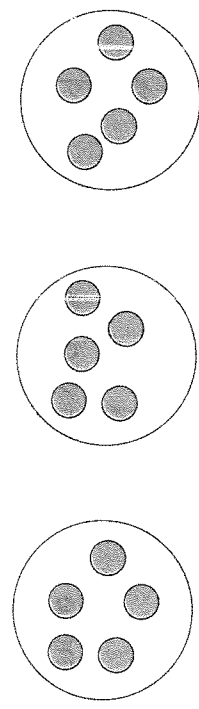
a)



There are pairs with mittens
in each pair.

There are mittens altogether.

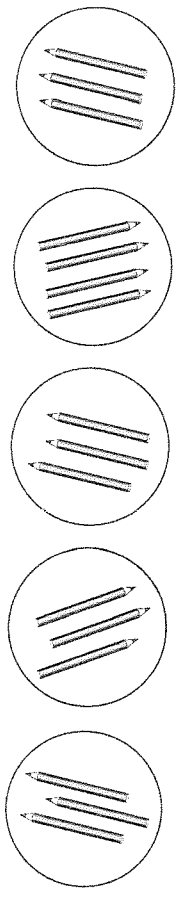
b)



There are groups with
counters in each group.

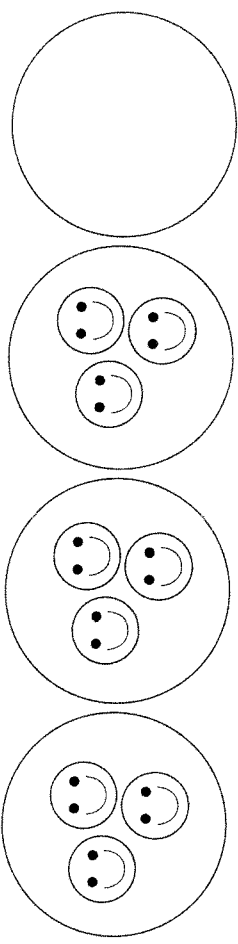
There are counters altogether.

2 Tick the unequal group.



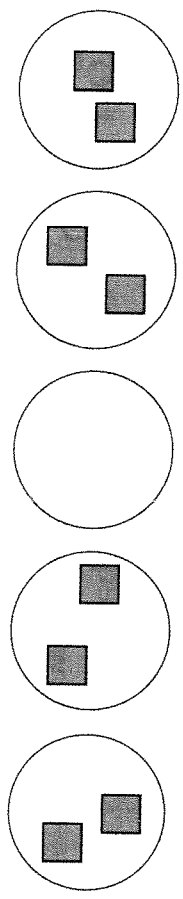
3 Complete the equal groups and sentences.

a)



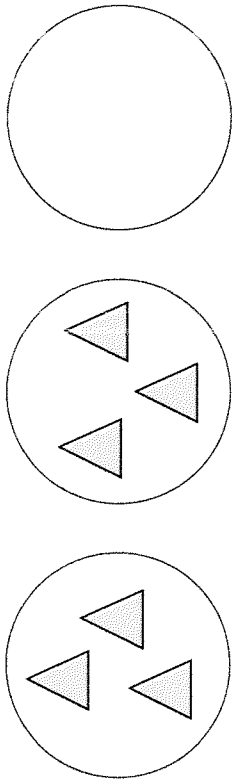
There are groups with in
each group.

b)



There are groups with in
each group.

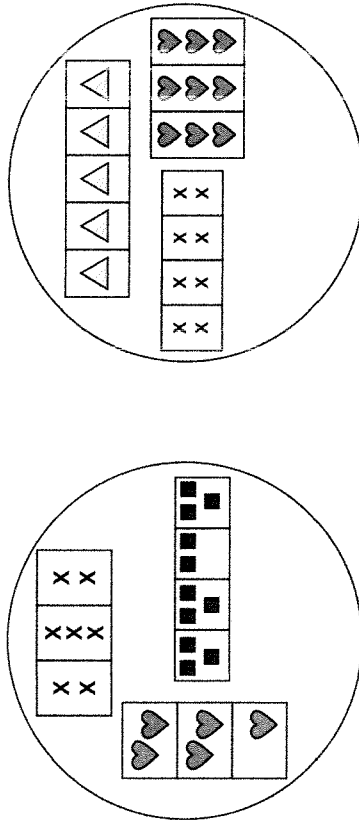
c)



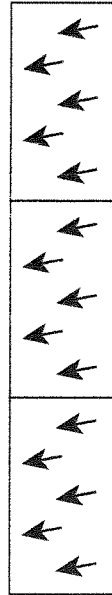
There are groups with in each group.

4

a) How has Annie sorted these groups?



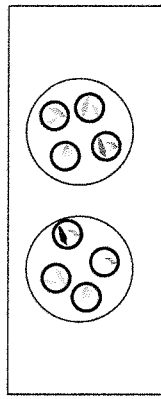
b) Draw a line to show where this group belongs.



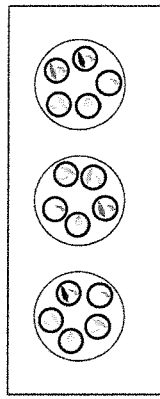
5

Match the sentences to the pictures.

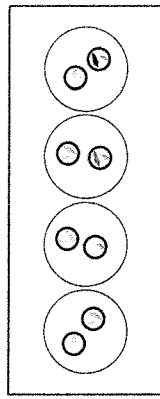
There are 3 equal groups with 5 in each group.



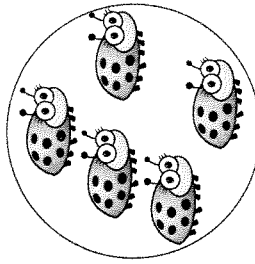
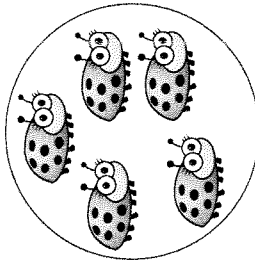
There are 4 equal groups with 2 in each group.



There are 2 equal groups with 4 in each group.



6



I can see 5 equal groups of 2

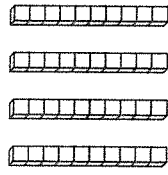


Is Whitney correct? _____
Talk to a partner.

Make equal groups

1 Complete the sentences.

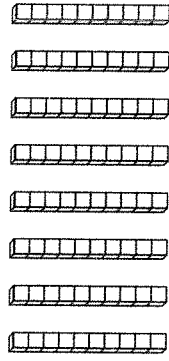
a)



There are equal groups of 10

There are tens.

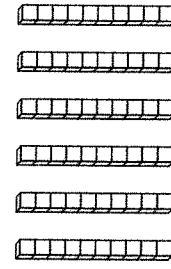
b)



There are equal groups of 10

There are tens.

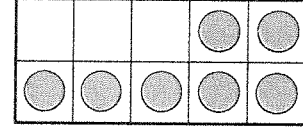
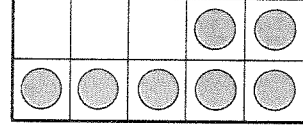
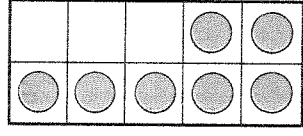
c)



There are tens.

2 The ten frames show equal groups.

a)

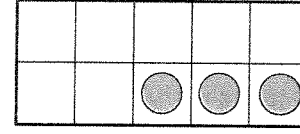
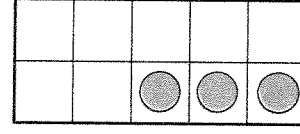
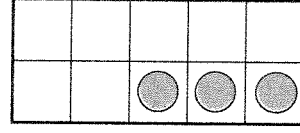
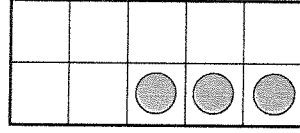
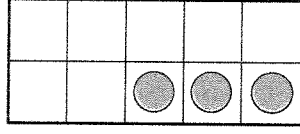


There are

equal groups with

in each group.

b)



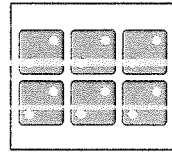
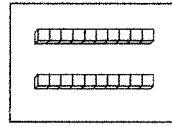
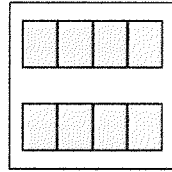
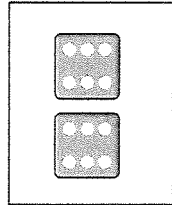
There are

equal groups with

in each group.



3 Match the equal groups.



two 10s

2 sixes

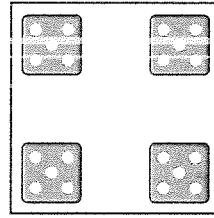
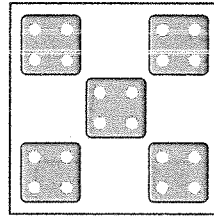
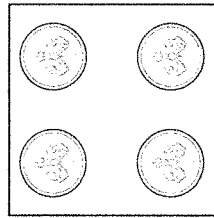
6 twos

two 4s

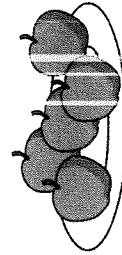


4 Which pictures represent 4 equal groups with 5 in each group?

Tick your answers.



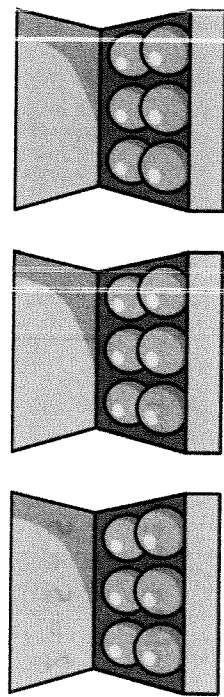
5 How can Eva make the groups equal?



What do you notice about your drawings?

1 Complete the sentences.

a)

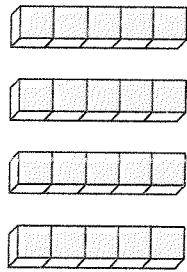


There are equal groups with

in each group.

	+		= 18
	$\times$		= 18

b)

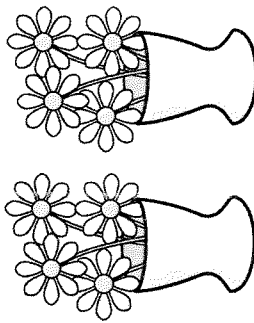


There are equal groups with

in each group.

	+		= 20
	$\times$		= 20

c)



There are equal groups with

in each group.

	+		= 8
	$\times$		= 8

2 Complete the table.

The first one has been done for you.

Addition	Multiplication
$2 + 2 + 2 + 2$	4×2
$5 + 5 + 5$	
$3 + 3 + 3 + 3 + 3$	
	2×10

3 Complete the pattern.

$$5 \times 2 = 5 + 5 = \boxed{}$$

$$5 \times 3 = 5 + 5 + 5 = \boxed{}$$

$$5 \times 4 = 5 + 5 + 5 + 5 = \boxed{}$$

$$5 \times 5 = \underline{\hspace{2cm}} = \boxed{}$$

What comes next?

4 The total is 16

What could the addition and multiplication be?

5 Use counters to help you complete the number sentences.

a) $3 \times \boxed{} = 12$

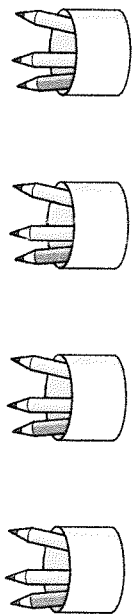
b) $\boxed{} \times 4 = 8$

c) $2 \times \boxed{} = 10$

Multiplication Sentences from pictures

1 Complete the sentences to match the picture.

a)

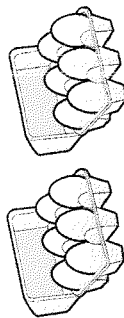


lots of 3 =

multiplied by 3 =

x 3 =

b)

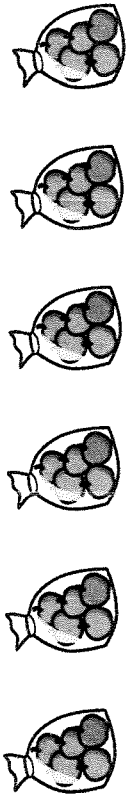


lots of 6 =

multiplied by 6 =

x 6 =

c)

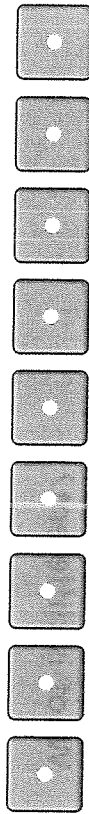


lots of =

multiplied by =

x =

d)



lots of =

multiplied by =

x =

2 Draw a picture for each sentence.

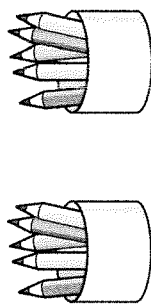
a) 4 lots of 5

b) 2 multiplied by 4

c) 3×5

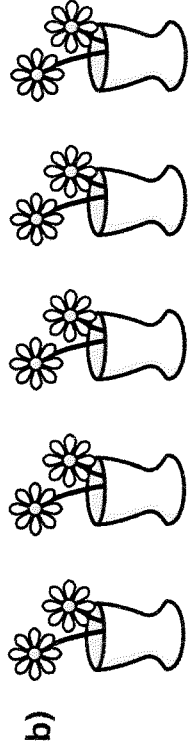
3 Complete the sentences for each picture.

a)



lots of =

x =



lots of =

x =

What is the same about the number sentences?

What is different?

4 a) The answer is 12

What could the multiplication be?

Compare answers with a partner.

b) Now the answer is 15

What could the multiplication be?

Can you write more or fewer multiplications for 15?