Make tally charts

1 Draw tally marks to represent each number.

a) 5 ☐

b) 10 ☐

c) 4 ☐

d) 16 ☐

2 There are some socks on a washing line.

The socks are spotty, stripy or plain.

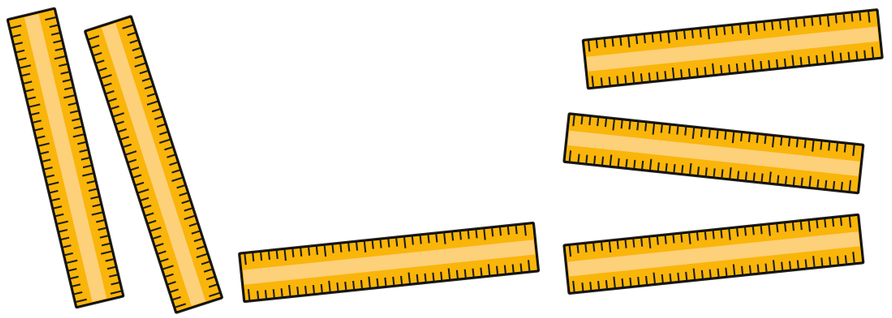
Complete the tally chart.

Sock	Tally
spotty	
stripy	
plain	

3 Class 2 tally the number of pencils, rubbers and rulers they have.

Item	Tally
pencils	IIII
rubbers	𝍸 IIII
rulers	𝍸 I

Draw the items. The rulers have been drawn for you.



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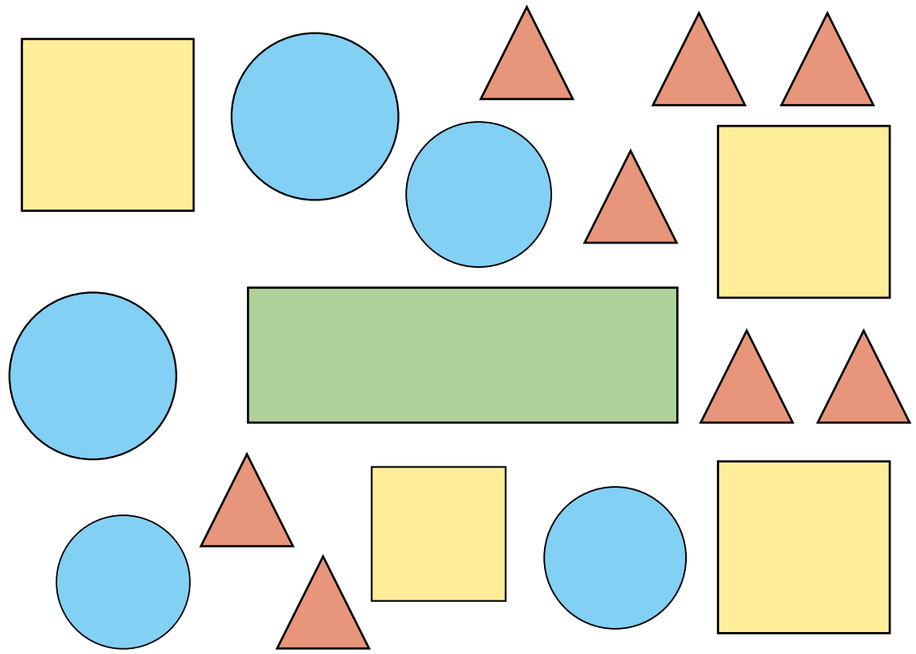
4 Here are some shapes.



a) Complete the tally chart to show how many of each shape there are.

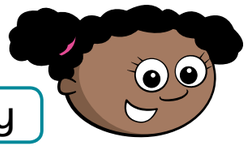
Shape	Tally	Total

b) How did you do the tallying?
Compare with a partner.

5 Whitney, Teddy and Jack tally how many jumps they can do in a minute.

Jumps	Tally	Total
Whitney	𝍸 I	
Teddy	IIIIIIII	
Jack	IIII	

a)



Do you agree with Whitney? _____

Explain your reasons.

b) How could Teddy's tallying be improved?

_____

6 Make a tally chart for a topic of your choice.

Compare answers with a partner.

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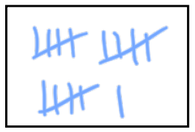
Make tally charts

1 Draw tally marks to represent each number.

a) 5

b) 10

c) 4

d) 16 

2 There are some socks on a washing line.

The socks are spotty, stripy or plain.

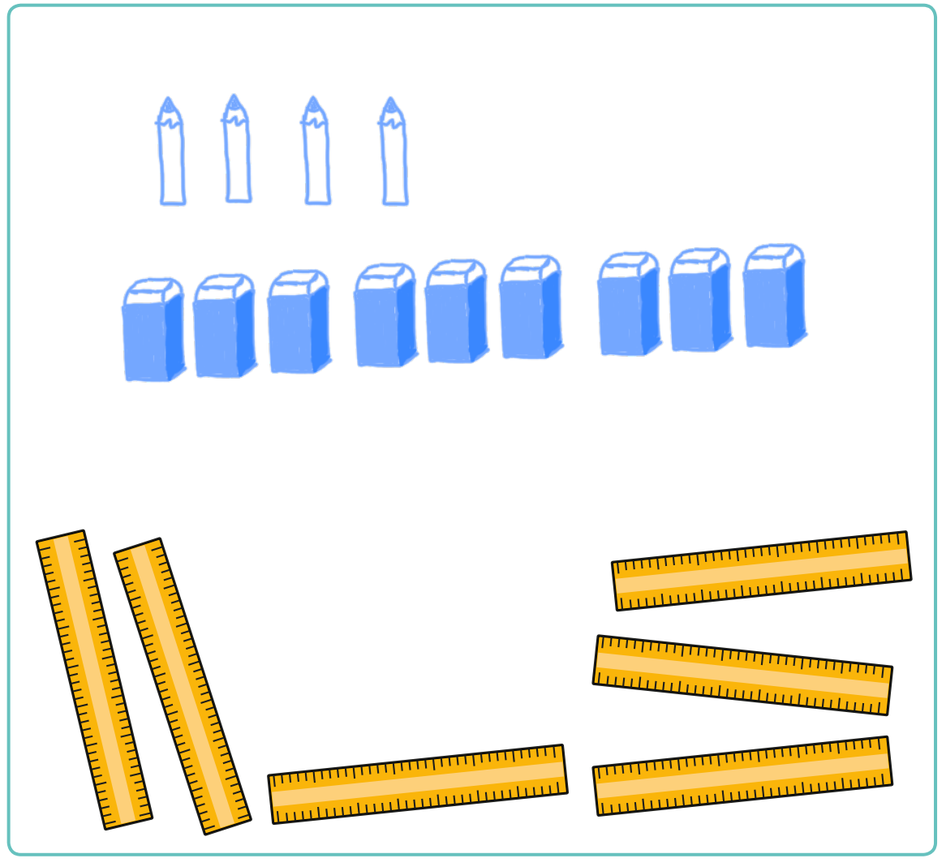
Complete the tally chart.

Sock	Tally
spotty	IIII
stripy	~~IIII~~
plain	~~IIII~~ I

3 Class 2 tally the number of pencils, rubbers and rulers they have.

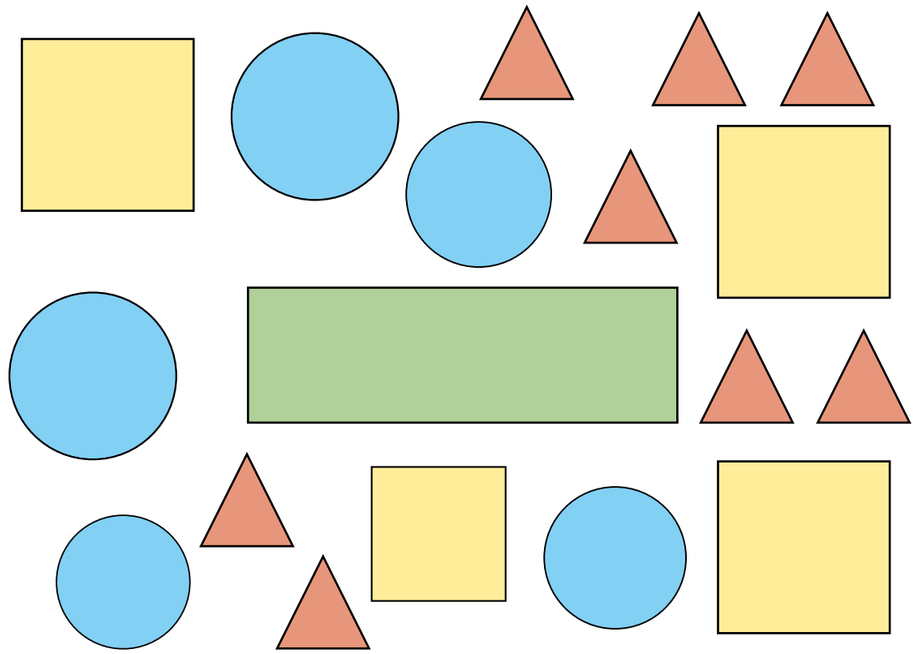
Item	Tally
pencils	IIII
rubbers	~~IIII~~ IIII
rulers	~~IIII~~ I

Draw the items. The rulers have been drawn for you.



© White Rose Maths 2019

4 Here are some shapes.



a) Complete the tally chart to show how many of each shape there are.

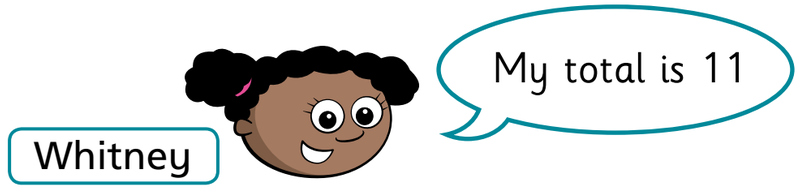
Shape	Tally	Total
Square	IIII	4
Rectangle	I	1
Circle	~~IIII~~	5
Triangle	~~IIII~~ III	8

b) How did you do the tallying?
Compare with a partner.

5 Whitney, Teddy and Jack tally how many jumps they can do in a minute.

Jumps	Tally	Total
Whitney	~~IIII~~ I	
Teddy	IIIIIIII	
Jack	IIII	

a)



Do you agree with Whitney? No

Explain your reasons.

b) How could Teddy's tallying be improved?

~~IIII~~ III

6 Make a tally chart for a topic of your choice.

Compare answers with a partner.

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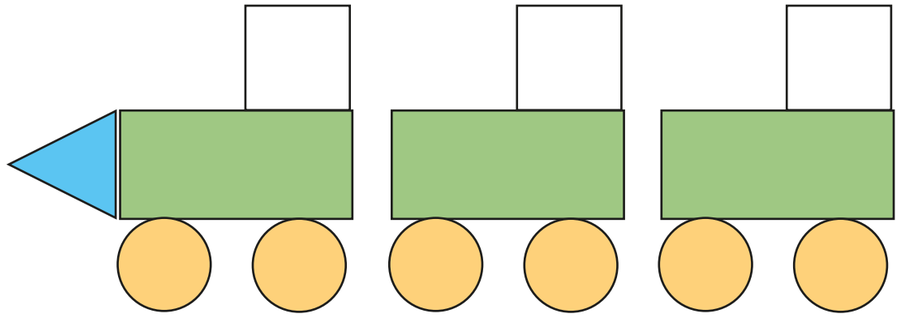
Draw pictograms (1–1)

1 Some children make a picture using shapes.



a) Complete the pictogram to show how many of each shape they have used.

Shape	
Square	
Rectangle	
Circle	
Triangle	

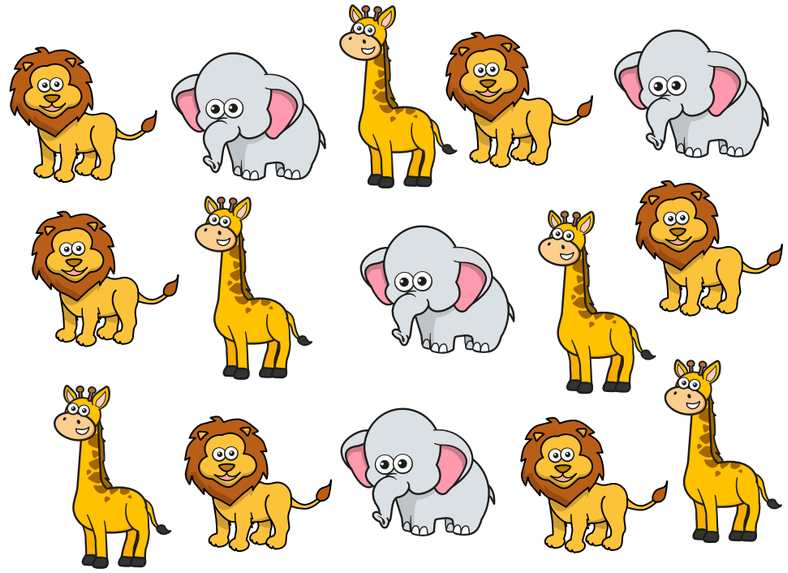
Key

X = 1 shape

b) What do you notice about the number of squares and the number of rectangles?

2 There are some animals in a zoo.

a) Complete the pictogram to show how many of each animal there are.



Animal	
Lion	
Elephant	
Giraffe	

Key

◯ = 1 animal

b) How did you complete the pictogram? Compare with a partner.

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3 Pencils, rubbers and rulers have been mixed up in a tub.

The tally chart shows how many of each item there are.

Item	Tally
pencils	IIII
rubbers	𝍸 IIII
rulers	𝍸 I

a) Use the tally chart to complete the pictogram.

Item	
Pencils	○ ○ ○ ○
Rubbers	
Rulers	

Key

○ = 1 item

b) Mo draws a pictogram for the same items.

Here is his pictogram.

Item	
Pencils	○ ○ ○ ○
Rubbers	○ ○ ○ ○ ○ ○ ○ ○ ○
Rulers	□ □ □ □ □ □

What mistakes has Mo made?

How could his pictogram be improved?

4 There are some flowers in a garden.

- There are 4 sunflowers.
- There is 1 less daffodil than there are sunflowers.
- There are twice as many daisies as daffodils.
- There is the same number of tulips as daffodils.

a) Complete the pictogram.

Key

❀ = 1 flower

Flower	
Sunflowers	❀ ❀ ❀ ❀
Daffodils	
Daisies	
Tulips	

b) How many flowers are in the garden in total?

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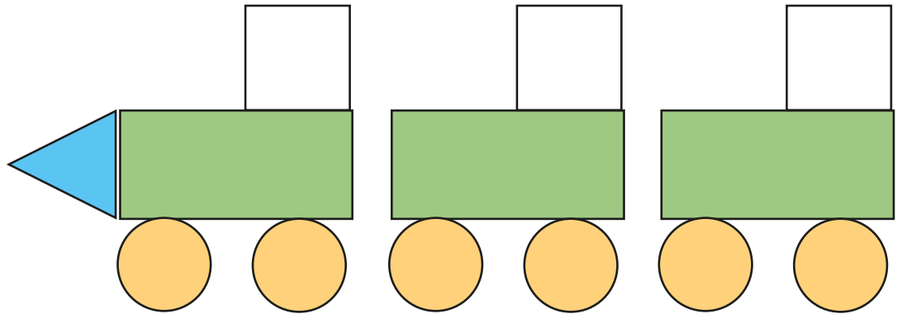
Draw pictograms (1–1)

1 Some children make a picture using shapes.



a) Complete the pictogram to show how many of each shape they have used.

Shape	
Square	XXX
Rectangle	XXX
Circle	XXXXXX
Triangle	X

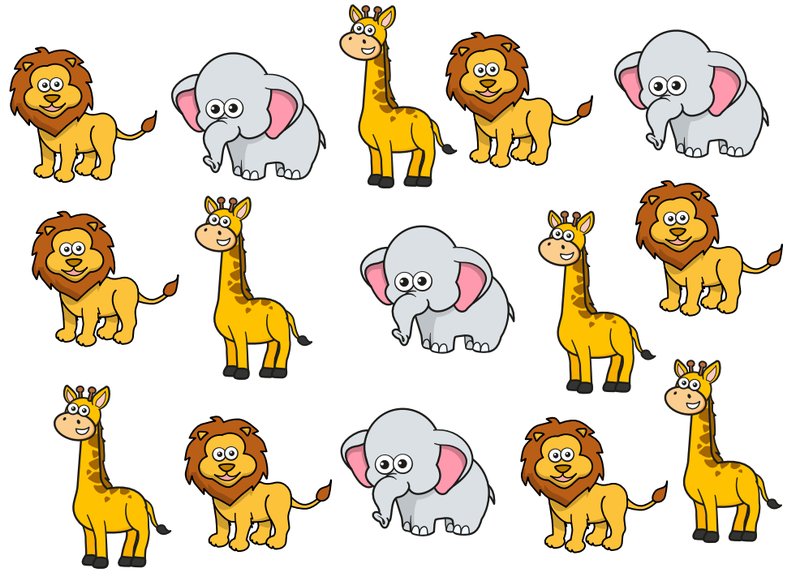
Key

X = 1 shape

b) What do you notice about the number of squares and the number of rectangles?

2 There are some animals in a zoo.

a) Complete the pictogram to show how many of each animal there are.



Animal	
Lion	○○○○○○
Elephant	○○○○
Giraffe	○○○○○

Key

○ = 1 animal

b) How did you complete the pictogram? Compare with a partner.

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3 Pencils, rubbers and rulers have been mixed up in a tub.

The tally chart shows how many of each item there are.

Item	Tally
pencils	IIII
rubbers	𝍸 IIII
rulers	𝍸 I

a) Use the tally chart to complete the pictogram.

Item	
Pencils	○ ○ ○ ○
Rubbers	○ ○ ○ ○ ○ ○ ○ ○ ○
Rulers	○ ○ ○ ○ ○ ○

Key

○ = 1 item

b) Mo draws a pictogram for the same items.

Here is his pictogram.

Item	
Pencils	○ ○ ○ ○
Rubbers	○ ○ ○ ○ ○ ○ ○ ○ ○
Rulers	□ □ □ □ □ □

What mistakes has Mo made?

How could his pictogram be improved?

4 There are some flowers in a garden.

- There are 4 sunflowers.
- There is 1 less daffodil than there are sunflowers.
- There are twice as many daisies as daffodils.
- There is the same number of tulips as daffodils.

a) Complete the pictogram.

Key

❀ = 1 flower

Flower	
Sunflowers	❀ ❀ ❀ ❀
Daffodils	❀ ❀ ❀
Daisies	❀ ❀ ❀ ❀ ❀ ❀
Tulips	❀ ❀ ❀

b) How many flowers are in the garden in total?

16

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Interpret pictograms (1–1)

1 The pictogram shows what some teachers had for school lunch.

Lunch	
Fish	⬭ ⬭ ⬭
Chicken	
Spaghetti	⬭ ⬭ ⬭ ⬭ ⬭
Salad	⬭ ⬭

Key

⬭ = 1 lunch

a) Which lunch did the most teachers have? Tick your answer.

fish chicken spaghetti salad

b) Which lunch did the least teachers have? Tick your answer.

fish chicken spaghetti salad

c) How many teachers had chicken? ☐

2 The pictogram shows how many insects Class 2 saw on a bug hunt.

Insect	
Butterfly	🦋 🦋 🦋 🦋 🦋
Bee	🐝 🐝
Caterpillar	

Key

🐛 = 1 insect

a) Complete the sentences.

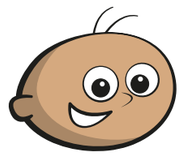
Class 2 saw ☐ butterflies.

Class 2 saw ☐ bees.

Class 2 saw ☐ caterpillars.

Altogether Class 2 saw ☐ insects.

b)



Last summer I saw a bee hive. I do not think I could draw a pictogram to show all the bees.

Do you agree with Tommy?

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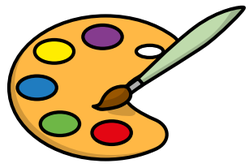
3 Class 1 were asked to choose their favourite colour out of yellow, green, blue and purple.

The pictogram shows the results.



Colour	
Yellow	
Green	
Blue	
Purple	

Key

= 1 child

a) How many children chose yellow?

b) How many children chose green?

c) How many more children chose purple than blue?

How did you work this out?

4 Eva's friends vote for their favourite fruit.

She draws a pictogram and says it shows:

- the same votes for apple and pear
- melon got the fewest votes
- plum got the most votes
- grape got only 1 vote
- grape got fewer votes than pear.

a) Draw a possible pictogram so that Eva's statements are true.

Grape	Melon	Apple	Plum	Pear

b) Draw a key for the pictogram.

= 1 vote

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Interpret pictograms (1–1)

1 The pictogram shows what some teachers had for school lunch.

Lunch	
Fish	
Chicken	
Spaghetti	
Salad	

Key

= 1 lunch

a) Which lunch did the most teachers have?
Tick your answer.

fish chicken spaghetti salad

b) Which lunch did the least teachers have?
Tick your answer.

fish chicken spaghetti salad

c) How many teachers had chicken? 0

2 The pictogram shows how many insects Class 2 saw on a bug hunt.

Insect	
Butterfly	
Bee	
Caterpillar	

Key

= 1 insect

a) Complete the sentences.

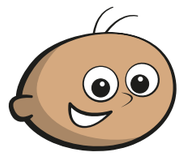
Class 2 saw 5 butterflies.

Class 2 saw 2 bees.

Class 2 saw 0 caterpillars.

Altogether Class 2 saw 7 insects.

b)



Last summer I saw a bee hive. I do not think I could draw a pictogram to show all the bees.

Do you agree with Tommy?

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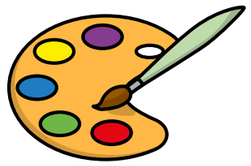
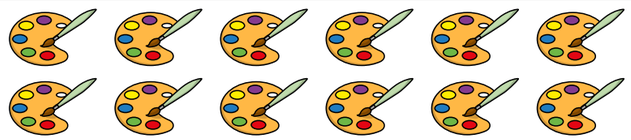
3 Class 1 were asked to choose their favourite colour out of yellow, green, blue and purple.

The pictogram shows the results.



Colour	
Yellow	
Green	
Blue	
Purple	

Key

= 1 child

a) How many children chose yellow? 12

b) How many children chose green? 1

c) How many more children chose purple than blue? 4

How did you work this out?

4 Eva's friends vote for their favourite fruit.

She draws a pictogram and says it shows:

- the same votes for apple and pear
- melon got the fewest votes
- plum got the most votes
- grape got only 1 vote
- grape got fewer votes than pear.

a) Draw a possible pictogram so that Eva's statements are true.

E.g

Grape	Melon	Apple	Plum	Pear

b) Draw a key for the pictogram.

= 1 vote

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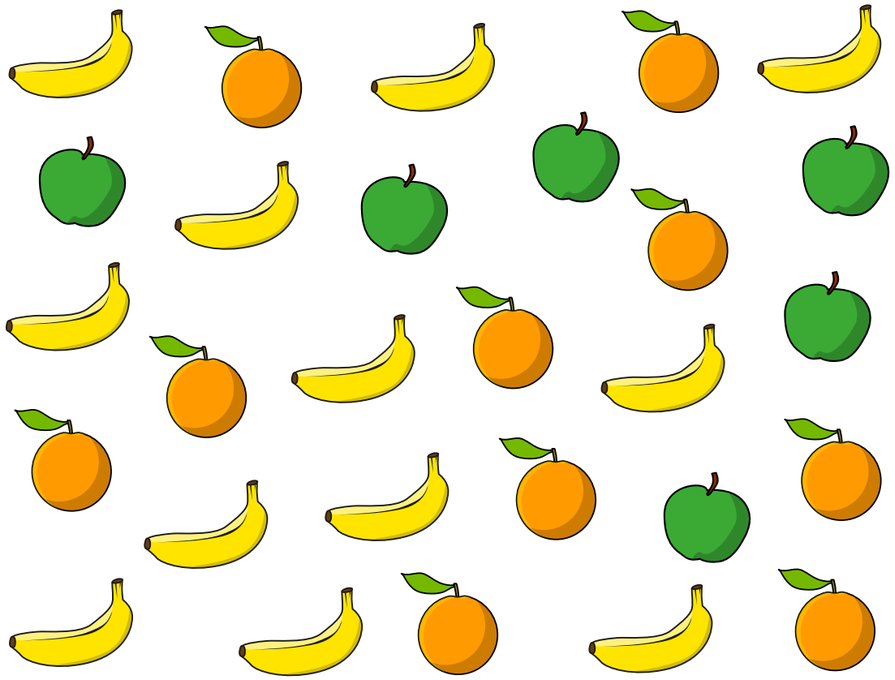
Draw pictograms (2, 5 and 10)

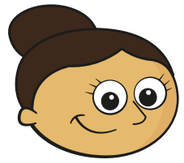
1 Here is some fruit.



a) Complete the tally chart.

Fruit	Tally	Total
Apples		
Oranges		
Bananas		

b)



I will use a circle for each piece of fruit.

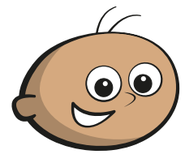
Draw Dora's pictogram.

Key

= 1 piece of fruit

Fruit	
Apples	
Oranges	
Bananas	

c)



I will use a circle for every 2 pieces of fruit.

Draw Tommy's pictogram.

Key

= 2 pieces of fruit

Fruit	
Apples	
Oranges	
Bananas	

d) Whose pictogram do you prefer? Why?

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2 Class 2 vote for whether they would like to play tennis, football or netball.

The tally chart shows the votes.

Sport	Tally	Total
Tennis	𝍸	5
Football	𝍸 𝍸 𝍸 𝍸	20
Netball	𝍸 𝍸	10

a) Complete the pictogram.

Sport	
Tennis	
Football	
Netball	

Key

● = 5 votes

b) Complete the pictogram.

Sport	
Tennis	
Football	
Netball	

Key

● = 10 votes

3 The tally chart shows the weather for 55 days.

Weather	Tally
Sun	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 |
Cloud	𝍸 𝍸
Rain	𝍸 𝍸 𝍸

a) Draw a pictogram to show this information

Choose your own key.

Weather	

Key

_____

b) Compare pictograms with a partner.

What is the same? What is different?

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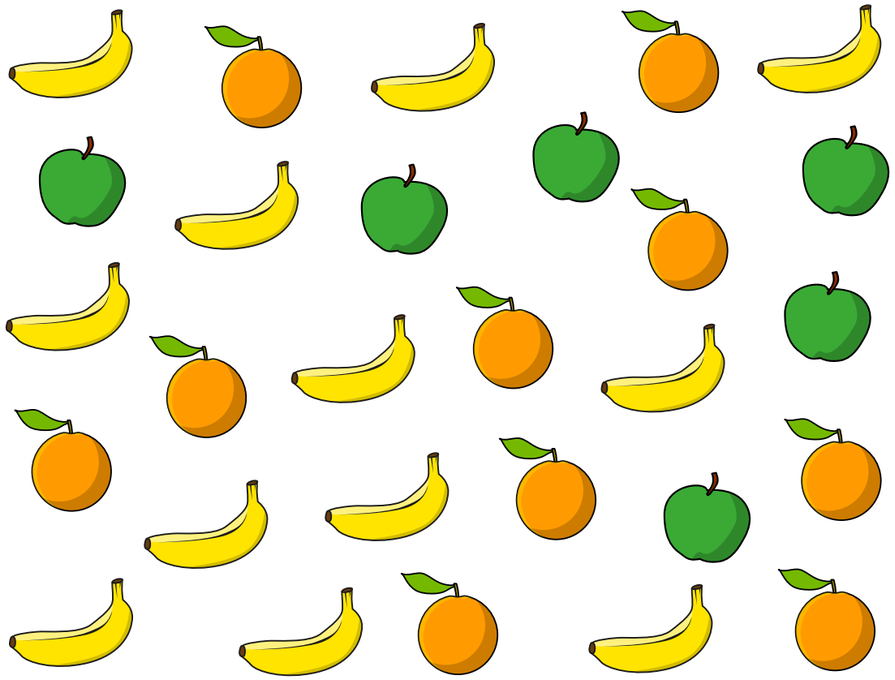
Draw pictograms (2, 5 and 10)

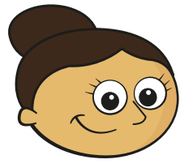
1 Here is some fruit.



a) Complete the tally chart.

Fruit	Tally	Total
Apples	𝍸 I	6
Oranges	𝍸 𝍸	10
Bananas	𝍸 𝍸 II	12

b)



I will use a circle for each piece of fruit.

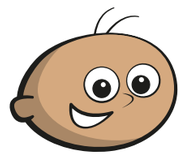
Draw Dora's pictogram.

Key

= 1 piece of fruit

Fruit	
Apples	○○○○○○
Oranges	○○○○○○○○○○
Bananas	○○○○○○○○○○○○

c)



I will use a circle for every 2 pieces of fruit.

Draw Tommy's pictogram.

Key

= 2 pieces of fruit

Fruit	
Apples	○○○
Oranges	○○○○○
Bananas	○○○○○○

d) Whose pictogram do you prefer? Why?

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2 Class 2 vote for whether they would like to play tennis, football or netball.

The tally chart shows the votes.

Sport	Tally	Total
Tennis	𝍸	5
Football	𝍸 𝍸 𝍸 𝍸	20
Netball	𝍸 𝍸	10

a) Complete the pictogram.

Sport	
Tennis	○
Football	○ ○ ○ ○
Netball	○ ○

Key

○ = 5 votes

b) Complete the pictogram.

Sport	
Tennis	◐
Football	○ ○
Netball	●

Key

● = 10 votes

3 The tally chart shows the weather for 55 days.

Weather	Tally
Sun	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 |
Cloud	𝍸 𝍸
Rain	𝍸 𝍸 𝍸

a) Draw a pictogram to show this information

Choose your own key.

E.g.

Weather	
Sun	○ ○ ○
Cloud	○
Rain	○ ◐

Key

○ = 10 days

b) Compare pictograms with a partner.

What is the same? What is different?

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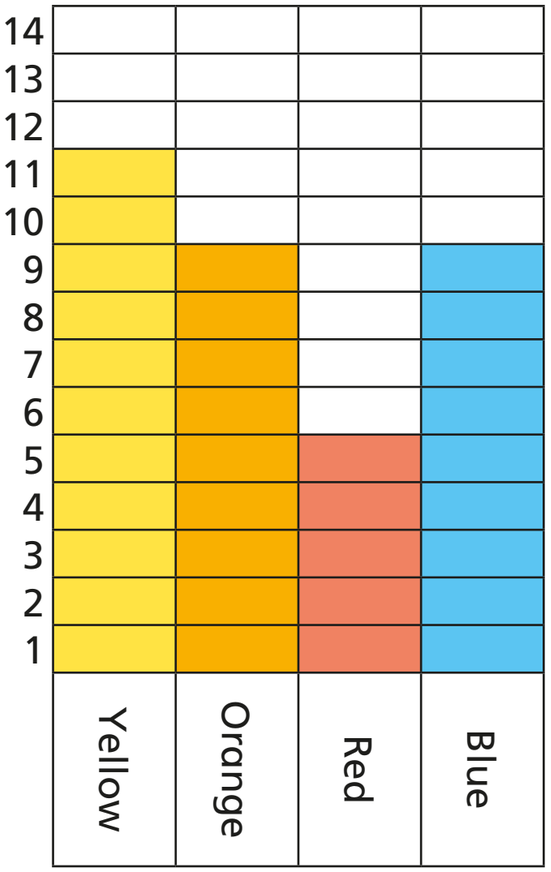
Block diagrams

1 The block diagram shows children's favourite colours.



Use the block diagram to answer the questions.

a) Which colour is most popular?

_____

b) How many people chose blue as their favourite?

c) Which colour is least popular?

_____

d) How many people chose orange as their favourite?

e) How many more people like yellow than orange?

f) How many more people like yellow than red?

g) How did you work out your answers to e) and f)?

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2 The tally chart shows how many of each item there is.

Item	Tally	Total
Scissors	IIII	4
Glue	𝍸 IIII	9
Pens	𝍸 I	6

a) Do the totals match the tallies?
Circle your answer.

Yes **No**

b) Use cubes to make towers showing how many scissors, glue and pens there are.

c) Colour the block diagram using the tally chart and your cubes to help.

10			
9			
8			
7			
6			
5			
4			
3			
2			
1			
	Scissors	Glue	Pens

3 At the zoo, Mo keeps a record of how many big cats he sees.

Big Cat	
Leopard	🐾🐾🐾
Cheetah	🐾🐾🐾🐾
Lion	🐾🐾
Tiger	🐾🐾🐾🐾🐾

Key
🐾 = 2 big cats

Dora has tried to show the same information on a block diagram but she has made a mistake.

a) What mistake has Dora made?

10				
9				
8				
7				
6				
5				
4				
3				
2				
1				
	Leopards	Cheetahs	Lions	Tigers

b) Complete the block diagram so that it is correct.

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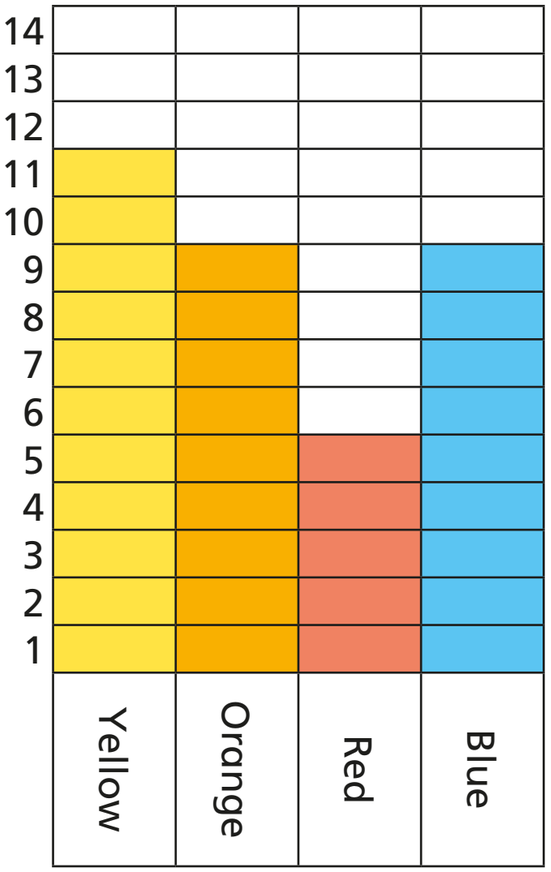
Block diagrams

1 The block diagram shows children's favourite colours.



Use the block diagram to answer the questions.

a) Which colour is most popular?

Yellow

b) How many people chose blue as their favourite?

9

c) Which colour is least popular?

Red

d) How many people chose orange as their favourite?

9

e) How many more people like yellow than orange?

2

f) How many more people like yellow than red?

6

g) How did you work out your answers to e) and f)?

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2 The tally chart shows how many of each item there is.

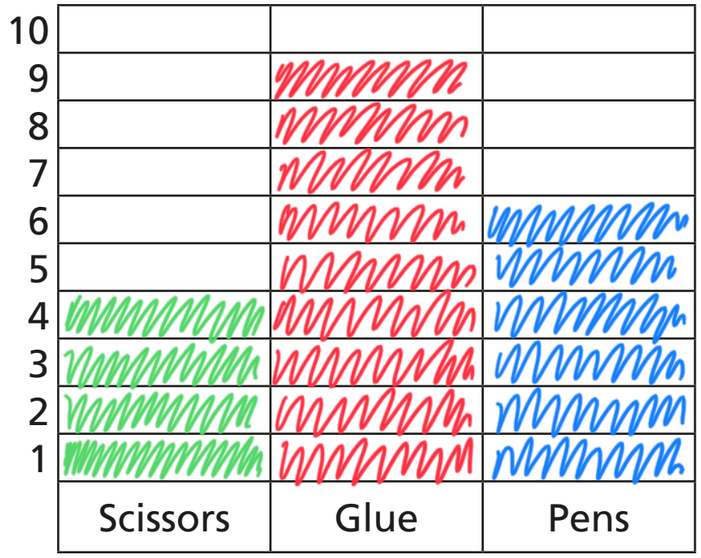
Item	Tally	Total
Scissors	IIII	4
Glue	𝍸 IIII	9
Pens	𝍸 I	6

a) Do the totals match the tallies?
Circle your answer.

Yes **No**

b) Use cubes to make towers showing how many scissors, glue and pens there are.

c) Colour the block diagram using the tally chart and your cubes to help.



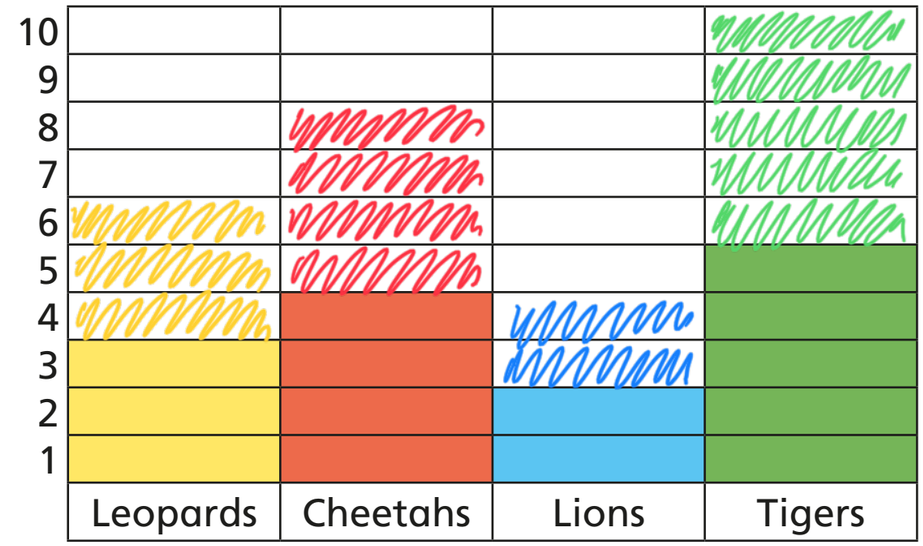
3 At the zoo, Mo keeps a record of how many big cats he sees.

Big Cat	
Leopard	🐾🐾🐾
Cheetah	🐾🐾🐾🐾
Lion	🐾🐾
Tiger	🐾🐾🐾🐾🐾

Key
🐾 = 2 big cats

Dora has tried to show the same information on a block diagram but she has made a mistake.

a) What mistake has Dora made?



b) Complete the block diagram so that it is correct.

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