Ready-to-go Lesson Slides Year 2

Statistics

Lesson 5

Spr1

At Third Space Learning we provide personalised online lessons from specialist maths tutors to support the target groups in your school.

These ready-to-go slides are designed to work alongside our interventions to supplement quality first teaching and raise attainment in maths for all pupils.

To find out more about how you could use our 1-to-1 interventions year-round to boost maths progress in your school then get in touch:
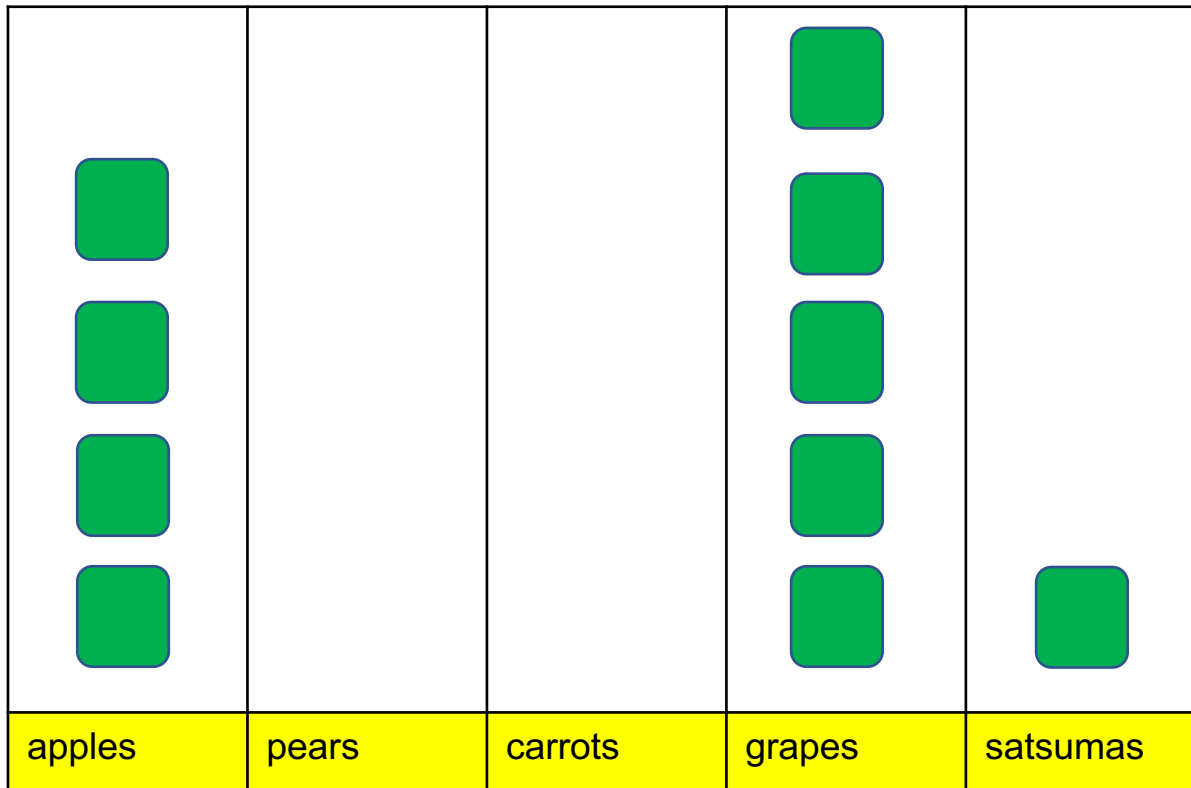
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Boosting maths progress through 1-to-1 conversations…

THIRD SPACE LEARNING

To interpret pictograms where symbols represent > 1.

❏ I can halve 2 and 10

❏ I can answer questions about pictograms with symbols that represent 2, 5 or 10 items

❏ I know that a pictogram can be laid out vertically or horizontally

apples	pears	carrots	grapes	satsumas

Starter:

Some Year 2 children asked some Reception children what their favourite snack for the snack table was. What does this pictogram tell us about their choices?

Key 🟩 = 2 children

To interpret pictograms where symbols represent > 1.

Starter:

Some Year 2 children asked some Reception children what their favourite snack for the snack table was. What does this pictogram tell us about their choices?

Key = 2 children

apples	pears	carrots	grapes	satsumas
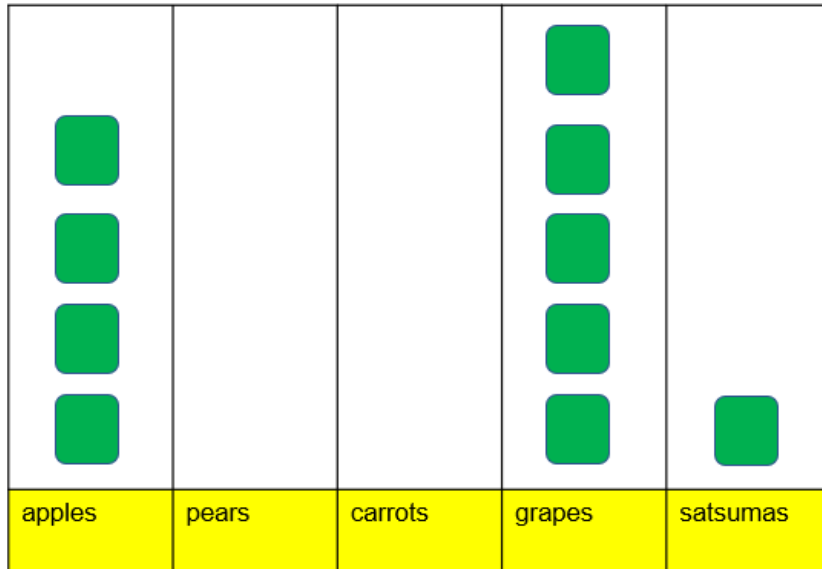
Some possible answers

- grapes were the most popular

- 10 children chose grapes

- no-one voted for pears or carrots

- 2 more children prefer grapes to apples

- 20 children were asked

To interpret pictograms where symbols represent > 1.

Talking time:

The Year 2 teachers are giving both Year 2 classes an end of term treat. Year 2 could choose from 5 choices. Here are the results as a pictogram.

	Key 🙂 = 5 votes
ice skating	🙂
cinema	🙂 🙂
party	🙂 🙂 🙂 🙂
a fun mud run	
swimming with inflatables	🙂 🙂 🙂 🙂 🙂

How many children voted for a party?

How many children voted altogether? How do you know?

Has someone forgotten to fill in the fun mud run votes?

Which activity would you choose?

To interpret pictograms where symbols represent > 1.

Talking time:

The Year 2 teachers are giving both Year 2 classes an end of term treat. Year 2 could choose from 5 choices. Here are the results as a pictogram.

	Key ☺ = 5 votes
ice skating	☺
cinema	☺ ☺
party	☺ ☺ ☺ ☺
a fun mud run	
swimming with inflatables	☺ ☺ ☺ ☺ ☺

How many children voted for a party?
20 children. 4 lots of 5.
How many children voted altogether? How do you know?
There are 12 smiley faces. 12 lots of 5 is 60 children.
Has someone forgotten to fill in the fun mud run votes?
No. No one wanted to do a fun mud run.
Which activity would you choose?

To interpret pictograms where symbols represent > 1.

Talking time:

Here is a pictogram from the last lesson. It shows **how many T-shirts were sold by a supermarket over one week**. What is the story of this pictogram?

Day	Key 👕 = 5 T-shirts sold
Sunday	👕👕
Monday	👕👕👕👕👕👕👕
Tuesday	👕👕👕👕
Wednesday	👕👕👕
Thursday	👕👕👕👕👕
Friday	👕👕👕👕👕
Saturday	👕👕👕👕👕👕👕👕

Only 10 T-shirts were sold on Sunday.

To interpret pictograms where symbols represent > 1.

Talking time:

Here is a pictogram from the last lesson. It shows **how many T-shirts were sold by a supermarket over one week**. What is the story of this pictogram?

Here are some possible answers.

Only 10 T-shirts were sold on Sunday.

Day	Key 👕 = 5 T-shirts sold
Sunday	👕👕
Monday	👕👕👕👕👕👕
Tuesday	👕👕👕👕
Wednesday	👕👕👕
Thursday	👕👕👕👕👕
Friday	👕👕👕👕👕
Saturday	👕👕👕👕👕👕👕

25 T-shirts were sold on Thursday.
25 T-shirts were sold on Friday.

Saturday was the best day to sell T-shirts.

50 T-shirts were sold altogether on Saturday and Sunday.

Extension:
Can you think of an answer that nobody else in your class would think of?

To interpret pictograms where symbols represent > 1.

Talking time:

Here is a pictogram from the last lesson.
It shows **how many loaves of bread were sold by a supermarket over one week**.

Can you think of **three questions** to ask a friend about this pictogram?

Day	Key 🍞 = 5 loaves of bread sold
Sunday	🍞 🍞 🍞 🍞 🍞 🍞 🍞 🍞
Monday	🍞 🍞 🍞 🍞 🍞 🍞
Tuesday	🍞 🍞 🍞 🍞
Wednesday	🍞 🍞 🍞 🍞
Thursday	🍞 🍞 🍞 🍞 🍞 🍞
Friday	🍞 🍞 🍞 🍞 🍞 🍞 🍞 🍞
Saturday	🍞 🍞 🍞 🍞 🍞 🍞 🍞 🍞 🍞

To interpret pictograms where symbols represent > 1.

Talking time:

Here is a pictogram from the last lesson.
It shows **how many loaves of bread were sold by a supermarket over one week**.

Can you think of **three questions** to ask a friend about this pictogram?

Day	Key 🍞 = 5 loaves of bread sold
Sunday	🍞🍞🍞🍞🍞🍞🍞🍞
Monday	🍞🍞🍞🍞🍞🍞
Tuesday	🍞🍞🍞🍞
Wednesday	🍞🍞🍞🍞
Thursday	🍞🍞🍞🍞🍞🍞
Friday	🍞🍞🍞🍞🍞🍞🍞🍞🍞
Saturday	🍞🍞🍞🍞🍞🍞🍞🍞

Here are some possible questions:

• How many loaves of bread were sold on Wednesday?

• How many loaves were sold at the weekend?

• On which days did the supermarket sell 30 loaves?

• How many more loaves did the supermarket sell on Friday than on Monday?

To interpret pictograms where symbols represent > 1.

Activity 1:

Here is a pictogram to show the favourite type of squash for two Year 2 classes.
Do you agree with Evie? Can you explain your thinking?
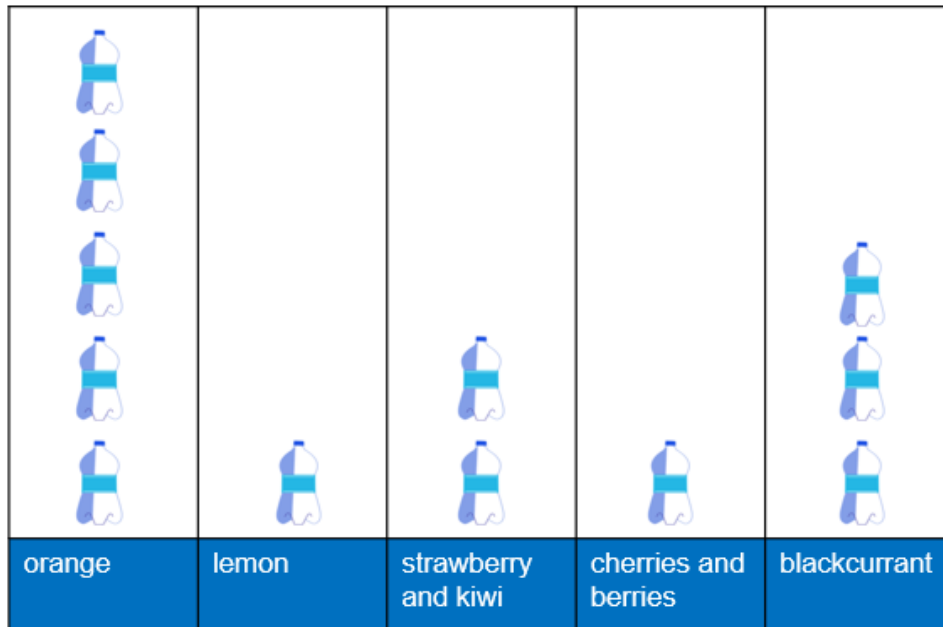
= 5 votes

If I add the votes for blackcurrant and the votes for lemon, the total will be less than those for orange.

To interpret pictograms where symbols represent > 1.

Activity 1:

Here is a pictogram to show the favourite type of squash for two Year 2 classes.
Do you agree with Evie? Can you explain your thinking?
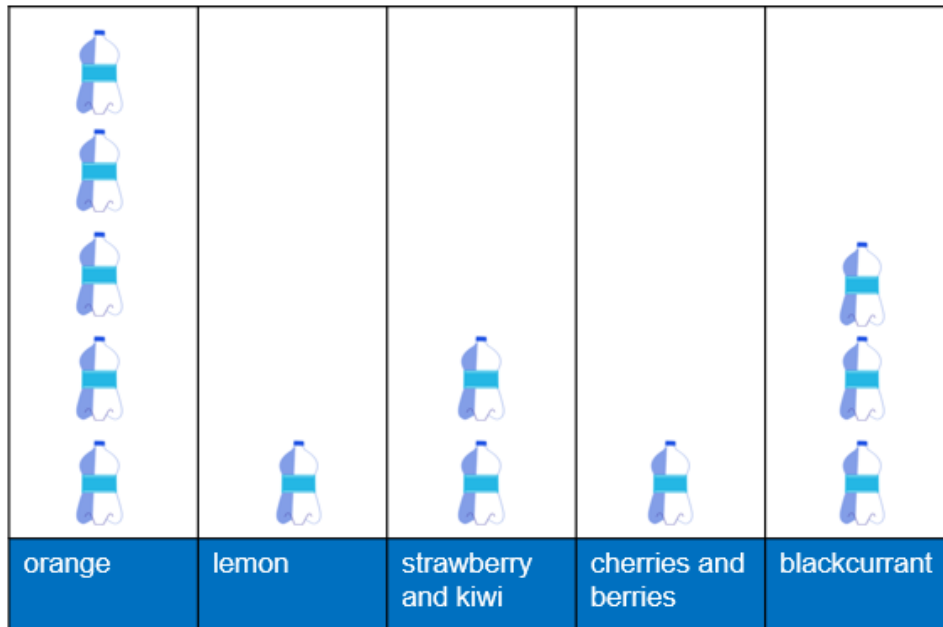
Evie is right.
The vote for blackcurrant and lemon total 40. 50 voted for orange.

If I add the votes for blackcurrant and the votes for lemon, the total will be less than those for orange.

= 5 votes

To interpret pictograms where symbols represent > 1.

Talking time:

Oak class children were asked a question. Here is a pictogram of their results.

sport	▲ = 2 children's votes
football	▲ ▲ ▲ ▲ ▲ ◢
Kwik Cricket	▲ ◢
rounders	▲ ▲ ▲
Uni-hockey	▲ ◢
swimming	▲ ▲ ▲ ◢
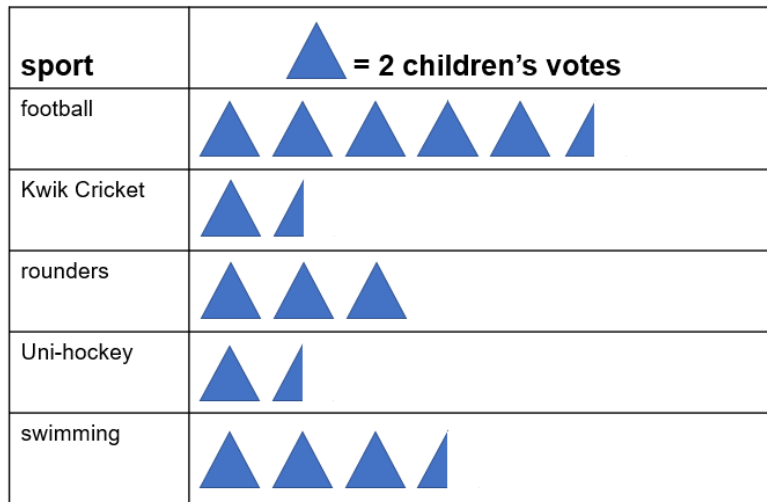
Which sports were the least popular?

What does half a triangle mean?

How many more children voted for swimming than rounders?

What title might you give this pictogram?

To interpret pictograms where symbols represent > 1.

Talking time:

Oak class children were asked a question. Here is a pictogram of their results.
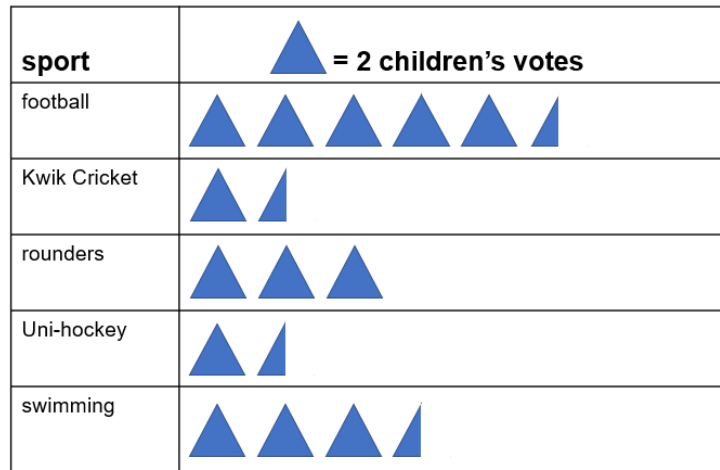
Which sports were the least popular? Kwik Cricket and Uni-hockey with 3 votes each.

What does half a triangle mean? It stands for 1 child's vote. A triangle = 2 votes.

How many more children voted for swimming than rounders? 1 child.

What title might you give this pictogram? A pictogram to show Oak class's favourite sport.

To interpret pictograms where symbols represent > 1.

Talking time:

Here is a pictogram from the last lesson. It shows the animals that Willow class saw on a visit to a farm. What is the story of this pictogram?

animal	Key ■ = **2** animals
sheep	■■■■■■■■■■■
cows	■■■■■■■
goats	■■■
hens	■■■■■■■
pigs	■■■■
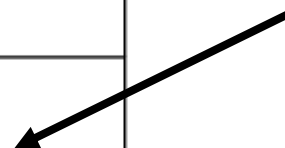
The children saw 8 pigs.

To interpret pictograms where symbols represent > 1.

Talking time:

Here is a pictogram from the last lesson. It shows the animals that Willow class saw on a visit to a farm. What is the story of this pictogram?

Here are some possible answers.

The children saw 66 animals altogether.

animal	Key ■ = **2** animals
sheep	■■■■■■■■■■
cows	■■■■■■■
goats	■■■
hens	■■■■■■
pigs	■■■■

The children saw 6 more sheep than cows.

The children saw twice as many cows than pigs.

The children saw 8 pigs.

To interpret pictograms where symbols represent > 1.

Talking time:

Here is the survey where a Year 2 class **were asked to choose how they prefer their eggs.**
1 vote = 1 egg.
If this was changed to a pictogram where 2 votes = 1 egg, why would every choice need a half an egg?
Convince me.

boiled	🥚🥚🥚🥚🥚🥚🥚🥚🥚🥚🥚
fried	🥚🥚🥚
scrambled	🥚🥚🥚🥚🥚🥚🥚🥚🥚
poached	🥚
do not eat eggs	🥚🥚🥚

To interpret pictograms where symbols represent > 1.

Talking time:

Here is the survey where a Year 2 class **were asked to choose how they prefer their eggs.**
1 vote = 1 egg.
If this was changed to a pictogram where 2 votes = 1 egg, why would every choice need a half an egg?
Convince me.

Each vote for each type of egg is an odd number.
If 2 votes = 1 egg there must be 1 left over. So, half an egg.

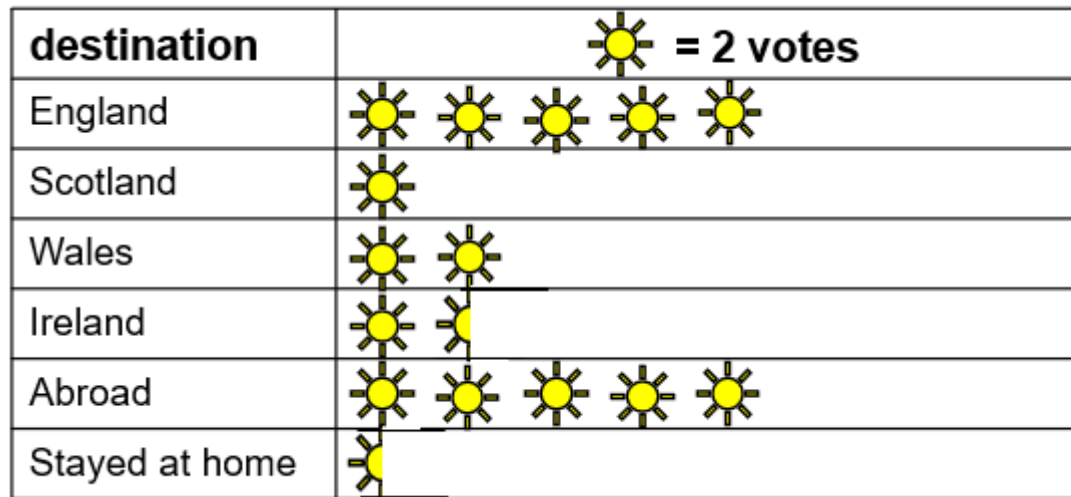| boiled | 🥚🥚🥚🥚🥚🥚🥚🥚🥚🥚🥚 |
fried	🥚🥚🥚
scrambled	🥚🥚🥚🥚🥚🥚🥚🥚🥚
poached	🥚
do not eat eggs	🥚🥚🥚

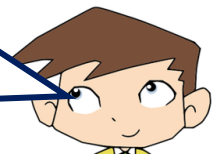| boiled | 🥚🥚🥚🥚🥚◗ |
fried	🥚◗
scrambled	🥚🥚🥚🥚◗
poached	◗
do not eat eggs	🥚◗

To interpret pictograms where symbols represent > 1.

Activity 2:

Do you agree with Ollie? Why? Why not? Can you explain your thinking?

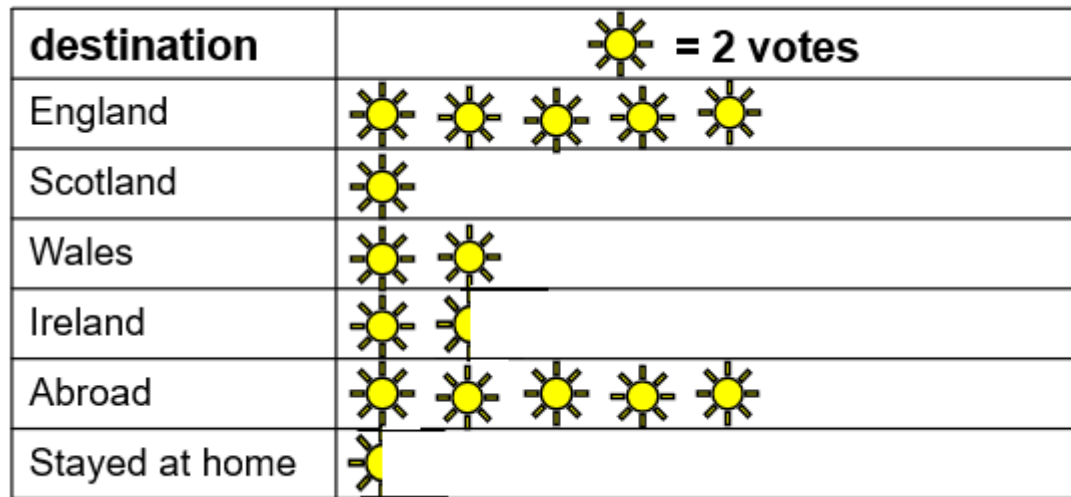| destination	☀ = 2 votes
England	☀ ☀ ☀ ☀ ☀
Scotland	☀
Wales	☀ ☀
Ireland	☀ ☀
Abroad	☀ ☀ ☀ ☀ ☀
Stayed at home	☀

To work out the total number of votes I just count all the symbols. There are 14 full symbols + 2 halves, so 15 votes.

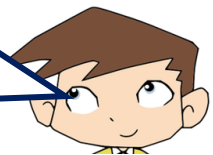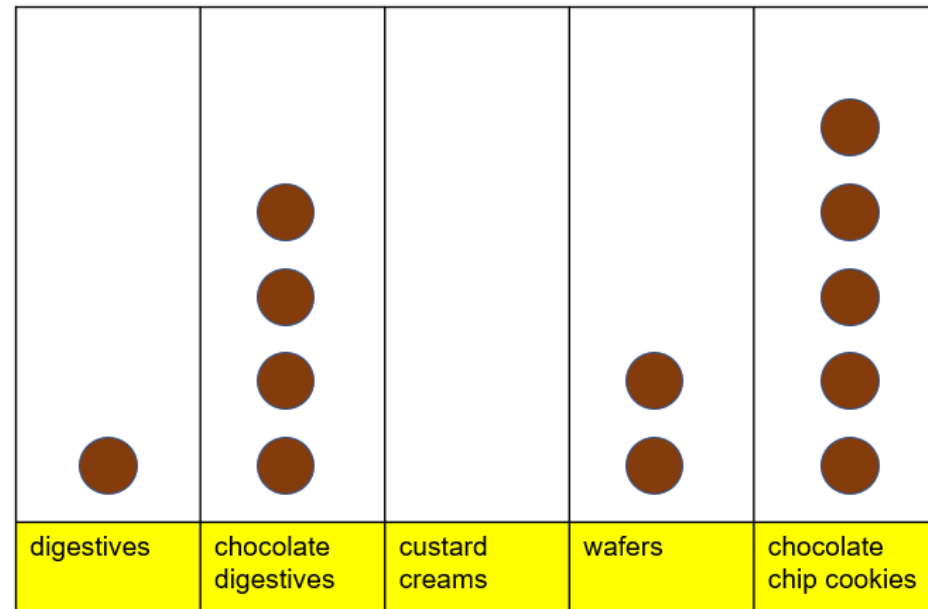# To interpret pictograms where symbols represent > 1.

Activity 2:

Do you agree with Ollie? Why? Why not? Can you explain your thinking?

destination	☀ = 2 votes
England	☀ ☀ ☀ ☀ ☀
Scotland	☀
Wales	☀ ☀
Ireland	☀ ☀
Abroad	☀ ☀ ☀ ☀ ☀
Stayed at home	☀

Ollie is not correct.
He has forgotten to use the key.
Every sun symbol is worth
2 votes.
So, there are 30 votes altogether.

To work out the total number of votes I just count all the symbols. There are 14 full symbols + 2 halves, so 15 votes.

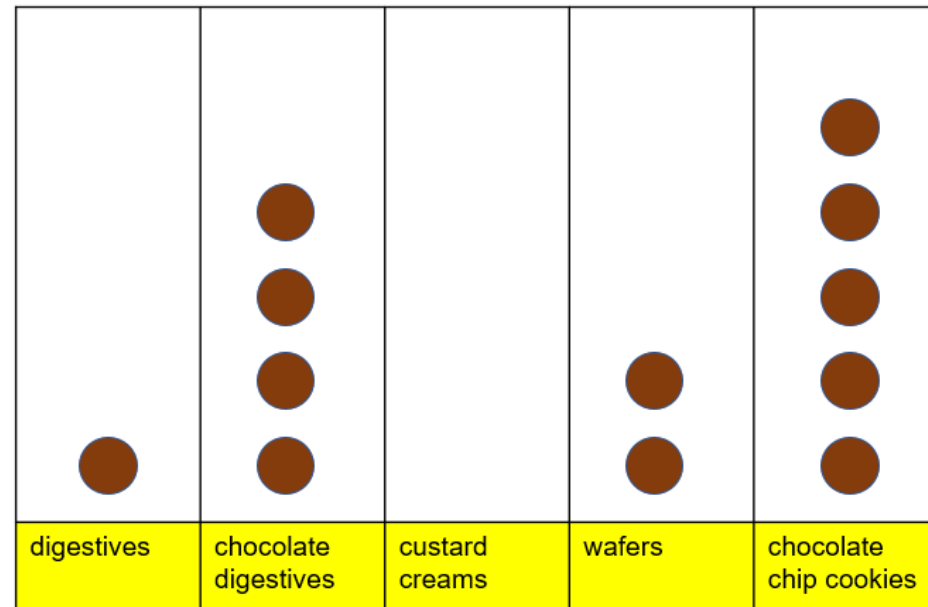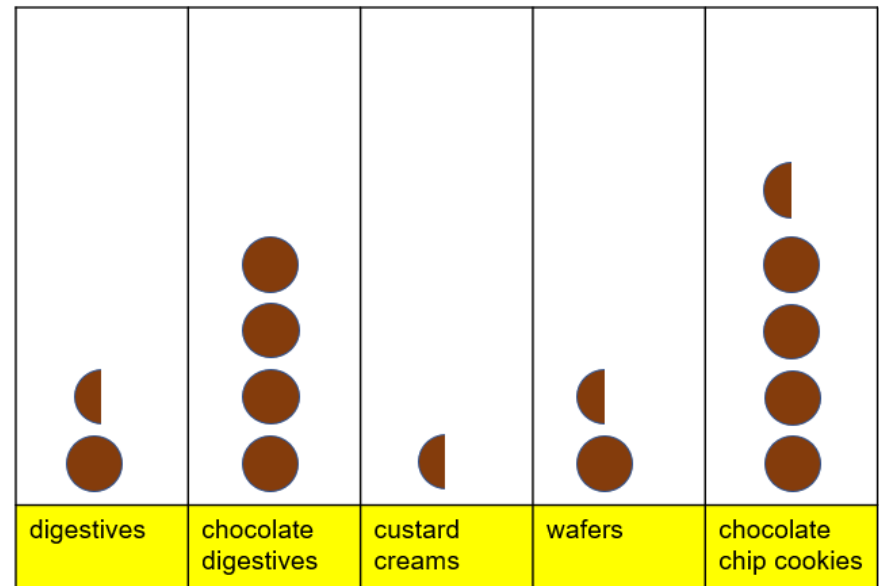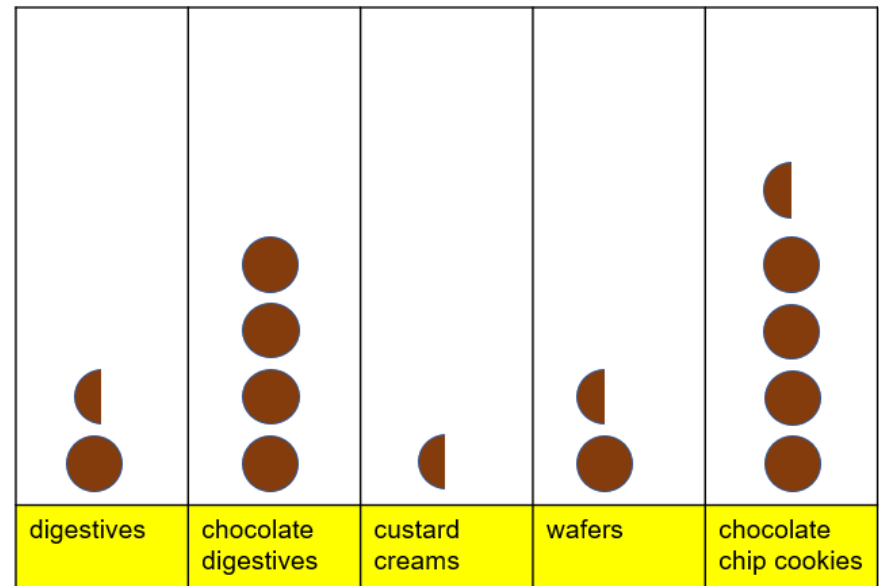# To interpret pictograms where symbols represent > 1.

Talking time:

Key Stage 1 children were asked to choose their favourite biscuit from a choice.
Here are the results.
Which statements are true or false?

Statement	True or false?
No children voted for custard creams.	
5 children voted for chocolate chip cookies.	
20 children voted for wafers.	
100 children voted altogether.	
The vote for wafers was half the vote for chocolate digestives.	

Key = 10 children

| digestives | chocolate digestives | custard creams | wafers | chocolate chip cookies |

To interpret pictograms where symbols represent > 1.

Talking time:

Key Stage 1 children were asked to choose their favourite biscuit from a choice.
Here are the results.
Which statements are true or false?

Statement	True or false?
No children voted for custard creams.	True
5 children voted for chocolate chip cookies.	False. 50.
20 children voted for wafers.	True
100 children voted altogether.	False. 120.
The vote for wafers was half the vote for chocolate digestives.	True

Key ⬤ = 10 children

| digestives | chocolate digestives | custard creams | wafers | chocolate chip cookies |

To interpret pictograms where symbols represent > 1.

Talking time:

Year 3 and 4 children were asked to choose their favourite biscuit. Here are the results. Which statements are true or false?

Statement	True or false?
Chocolate chip cookies were the most popular.	
15 children voted for digestives.	
More children voted for wafers than digestives.	
Only the vote for chocolate digestives ends in a 0.	
The vote for wafers was half the vote for chocolate digestives.	

Key ⬤ **= 10 children**

| digestives | chocolate digestives | custard creams | wafers | chocolate chip cookies |

To interpret pictograms where symbols represent > 1.

Talking time:

Year 3 and 4 children were asked to choose their favourite biscuit. Here are the results. Which statements are true or false?

Statement	True or false?
Chocolate chip cookies were the most popular.	True
15 children voted for digestives.	True
More children voted for wafers than digestives.	False
Only the vote for chocolate digestives ends in a 0.	True
The vote for wafers was half the vote for chocolate digestives.	False

Key = 10 **children**

| digestives | chocolate digestives | custard creams | wafers | chocolate chip cookies |

To interpret pictograms where symbols represent > 1.

Activity 3:

Here is a pictogram to show how many ice creams were sold over one week. If the people selling the ice creams decided to have a day off, which day should they choose? Can you explain your thinking?

day	Key 🍦 = **2** ice creams sold
Sunday	🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦
Monday	🍦🍦🍦
Tuesday	🍦🍦🍦🍦
Wednesday	🍦
Thursday	🍦🍦🍦🍦
Friday	🍦🍦🍦🍦🍦🍦🍦🍦
Saturday	🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦

To interpret pictograms where symbols represent > 1.

Activity 3:

Here is a pictogram to show how many ice creams were sold over one week. If the people selling the ice creams decided to have a day off, which day should they choose? Can you explain your thinking?

The best day to take would be Wednesday because that is the day when they sold the least number of ice creams.

day	Key 🍦 = **2** ice creams sold
Sunday	🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦
Monday	🍦🍦🍦
Tuesday	🍦🍦🍦🍦
Wednesday	🍦
Thursday	🍦🍦🍦
Friday	🍦🍦🍦🍦🍦🍦🍦🍦
Saturday	🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦

To interpret pictograms where symbols represent > 1.

Evaluation:

Here is part of a pictogram from earlier about voting for favourite squash flavours in Year 2.

Do you agree with Aisha?
Why? Why not?
Can you explain your answer?

This is worth 17 votes. 1 bottle is worth 10, 1 is worth 5 and the other is worth 2.

blackcurrant

To interpret pictograms where symbols represent > 1.

Evaluation:

Here is part of a pictogram from earlier about voting for favourite squash flavours in Year 2.

Do you agree with Aisha?
Why? Why not?
Can you explain your answer?

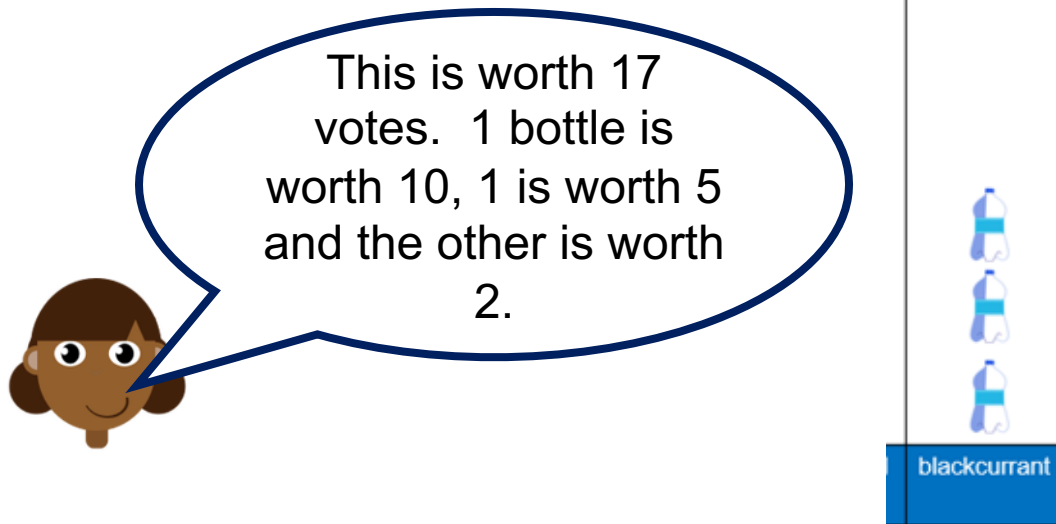This is worth 17 votes. 1 bottle is worth 10, 1 is worth 5 and the other is worth 2.

blackcurrant

Aisha is not right. Each picture or image on the pictogram has the same value.
So, this is equal to 3 from 1 + 1+ 1, 6 from 2 + 2 + 2, 15 from 5 + 5 + 5 or 30 from 10 + 10 + 10.

Do you have a group of pupils who need a boost in maths this term?

Each pupil could receive a personalised lesson every week from our specialist 1-to-1 maths tutors.

- Raise attainment
- Plug any gaps or misconceptions
- Boost confidence

Speak to us:

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